

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
31 January 2002 (31.01.2002)

PCT

(10) International Publication Number  
**WO 02/08765 A2**

(51) International Patent Classification<sup>7</sup>: **G01N 33/574**

(21) International Application Number: **PCT/US01/23843**

(22) International Filing Date: **26 July 2001 (26.07.2001)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:  
**60/220,967** **26 July 2000 (26.07.2000)** **US**

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
**US** **60/220,967 (CIP)**  
**Filed on** **26 July 2000 (26.07.2000)**

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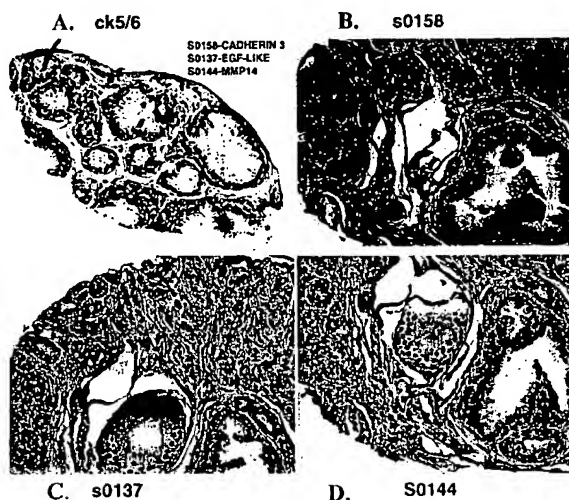
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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,

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(54) Title: **BASAL CELL MARKERS IN BREAST CANCER AND USES THEREOF**



(57) Abstract: The invention provides a variety of reagents for use in the diagnosis and management of breast cancer. The invention utilizes cDNA microarray technology to identify genes whose expression profile across a large group of tumor samples correlates with that of cytokeratin 5 and cytokeratin 17, markers for basal cells of the normal mammary lactation gland. The invention demonstrates that tumors that express cytokeratin 5/6 and/or 17 have a poor prognosis relative to tumors overall. The invention provides basal marker genes and their expression products and uses of these genes for diagnosis of breast cancer and for identification of therapies for breast cancer. In particular, the invention provides basal marker genes including cadherin3, matrix metalloproteinase 14, and cadherin EGF LAG seven-pass G-type receptor 2. The invention provides antibodies to the polypeptides expressed by these genes and methods of use thereof.



SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



## BASAL CELL MARKERS IN BREAST CANCER AND USES THEREOF

### GOVERNMENT SUPPORT

The U.S. Government has a paid-up license in this invention and the right in  
5 limited circumstances to require the patent owner to license others on reasonable  
terms as provided for by the terms of Grant No. NIH CA 77097 awarded by the  
National Cancer Institute.

### CROSS-REFERENCE TO RELATED APPLICATIONS

10 This application claims priority to provisional application U.S.S.N  
60/220,967, filed July 26, 2000, which is incorporated herein by reference.

### BACKGROUND OF THE INVENTION

A major challenge of cancer treatment is to target specific therapies to distinct  
15 tumor types in order to maximize efficacy and minimize toxicity. A related challenge  
lies in the attempt to provide accurate diagnostic, prognostic, and predictive  
information. At present, tumors are described with the tumor-node-metastasis (TNM)  
system. This system, which uses the size of the tumor, the presence or absence of  
tumor in regional lymph nodes, and the presence or absence of distant metastases, to  
20 assign a stage to the tumor is described in the American Joint Committee on Cancer:  
AJCC Cancer Staging Manual. Philadelphia, Pa: Lippincott-Raven Publishers, 5th ed.,  
1997, pp 171-180, and in Harris, JR: "Staging of breast carcinoma" in Harris, J.R.,  
Hellman, S., Henderson, I.C., Kinne D.W. (eds.): *Breast Diseases*. Philadelphia,  
Lippincott, 1991. The assigned stage is used as a basis for selection of appropriate  
25 therapy and for prognostic purposes. In addition to the TNM parameters,  
morphologic appearance is used to further classify tumors and thereby aid in selection  
of appropriate therapy. However, this approach has serious limitations. Tumors with  
similar histopathologic appearance can exhibit significant variability in terms of  
clinical course and response to therapy. For example, some tumors are rapidly  
30 progressive while others are not. Some tumors respond readily to hormonal therapy  
or chemotherapy while others are resistant.

Assays for cell surface markers, e.g., using immunohistochemistry, have provided means for dividing certain tumor types into subclasses. For example, one factor considered in prognosis and in treatment decisions for breast cancer is the presence or absence of the estrogen receptor (ER) in tumor samples. ER-positive breast cancers typically respond much more readily to hormonal therapies such as tamoxifen, which acts as an anti-estrogen in breast tissue, than ER-negative tumors. Though useful, these analyses only in part predict the clinical behavior of breast tumors. There is phenotypic diversity present in breast cancers that current diagnostic tools fail to detect. Therefore, there exists a need for improved methods for classifying tumors.

Mutation or dysregulation of any of a large number of genes contributes to the development and progression of cancer as discussed in Hanahan, D. and Weinberg, R., The Hallmarks of Cancer, *Cell*, 100, 57-70, 2000. Genes that play a role in cancer can be divided into a number of broad classes including oncogenes, tumor suppressor genes, and genes that regulate apoptosis. Oncogenes such as *ras* typically encode proteins whose activities promote cell growth and/or division, a function that is necessary for normal physiological processes such as development, tissue regeneration, and wound healing. However, inappropriate activity or expression of oncogenes can lead to the uncontrolled cell proliferation that is a feature of cancer. Tumor suppressor genes such as *Rb* act as negative regulators of cell proliferation. Loss of their activity, e.g., due to mutations or decreased expression at the level of mRNA or protein, can lead to unrestrained cell division. A number of familial cancer syndromes and inherited susceptibility to cancer are believed to be caused by mutations in tumor suppressor genes. Apoptosis, or programmed cell death, plays important roles both in normal development and in surveillance to eliminate cells whose survival may be deleterious to the organism, e.g., cells that have acquired DNA damage. Many chemotherapeutic agents are believed to work by activating the endogenous apoptosis pathway in tumor cells.

Although a substantial number of genes have been implicated as playing important roles in cancer, the factors responsible for the phenotypic diversity of tumors remain largely unknown. In particular, understanding of the underlying differences in gene expression that may contribute to tumor phenotype is limited.

- Understanding the differences in gene expression between normal and cancerous tissue and between different tumors of the same tissue type is of significant diagnostic, prognostic, and therapeutic utility. There is therefore a need for the identification of genes exhibiting differential expression between tumors. In particular, there is a need for the identification of additional genes and proteins that can be used to classify tumors, especially genes and proteins that can provide diagnostic, prognostic, and/or predictive information in cancer. There is also a need for antibodies and other reagents for the detection and measurement of such genes and proteins.
- Most of the commonly used chemotherapeutic agents act relatively nonselectively. Rather than specifically killing tumor cells, these agents target any dividing cell, resulting in a variety of adverse effects. In addition, current therapeutic strategies are of limited efficacy, and the mortality rate of breast cancer remains high. There is therefore a need for the identification of additional genes and proteins that can be used as targets for the treatment of cancer. There is also a need for antibodies and other reagents that can modulate, regulate, or interact with these genes and proteins to provide new method of treatment for cancer.

#### SUMMARY OF THE INVENTION

- The present invention relates to the identification of markers that are useful in classifying tumors, particularly breast tumors. The markers identify a class of tumors whose cells have characteristics of basal cells of normal breast lactation ducts. The markers were identified based on their expression profiles in human breast tumor samples, normal breast tissue, and cell lines as assessed using cDNA microarrays. In particular, the basal cell markers of the present invention were identified based on the similarity of their mRNA expression patterns to the expression patterns of markers previously known to identify breast duct basal cells, e.g., cytokeratin 5 and cytokeratin 17, across a set of breast tumor samples. The basal markers include the three genes known as cadherin 3 or P-cadherin (SEQ ID NO:1; GenBank protein accession number NP\_001399; GenBank cDNA accession number NM\_001408), matrix metalloproteinase 14 (SEQ ID NO:2; GenBank protein accession number NP\_004986; GenBank cDNA accession number NM\_004995); and cadherin EGF

LAG seven-pass G-type receptor 2 or EGF-Like Domain, Multiple 2 (SEQ ID NO:3; GenBank protein accession number NP\_001784; GenBank cDNA accession number NM\_001793). The invention further provides antibodies that specifically bind to the polypeptides encoded by the basal marker genes identified herein. The antibodies  
5 recognize basal cells of normal mammary lactation glands.

The invention provides various diagnostic methods based on the reagents mentioned above. The diagnostic methods include methods for classifying a tumor. In particular, the invention allows classification of a breast tumor as belonging to a basal class of breast tumors. According to certain of the inventive methods the  
10 presence or amount of a gene product, e.g., a polypeptide or a nucleic acid, encoded by a basal marker gene is detected in a sample derived from a subject (e.g., a sample of tissue or cells obtained from a tumor or a blood sample obtained from a subject). In general the subject is a human, however the subject may also be an animal of any other kind. The subject may be an individual who has or may have a tumor. The  
15 sample may be subjected to various processing steps prior to or in the course of detection. In certain embodiments of the invention the gene product is a polypeptide that is detected using an antibody capable of binding to the polypeptide. In certain embodiments of the invention the antibody is used to perform immunohistochemical staining on a sample obtained from a subject. In certain embodiments of the invention  
20 basal marker gene mRNA expression is measured using a microarray. In other embodiments of the invention basal marker gene mRNA expression is measured by quantitative PCR using a set of primers designed to amplify a portion of the gene. Additional detection means that may be employed in the present invention are described in U.S. Patent No: 6,057,105. In any of the methods for tumor  
25 classification and diagnosis, it may be advantageous to detect and/or measure expression of a set of basal markers rather than expression of a single marker.

By providing reagents that may reliably be used to classify tumors as belonging to a basal subclass, the invention enables a variety of methods for improving therapeutic options for patients with breast cancer. Much effort has and  
30 continues to be expended on the discovery of new chemotherapeutic agents. These agents are tested for efficacy in clinical trials. In many such trials it is noticed that a small number of patients stabilize or improve while receiving the treatment, while

most patients do not appear to benefit. Most such agents are not further developed for a number of reasons. For example, the clinical trial results may not be adequate to gain approval by the Food and Drug Administration. In addition, a pharmaceutical company may determine that the potential market for the drug is too small to justify further efforts. However, if it were possible to identify those patients likely to respond to the treatment, then it would be possible to design clinical trials that would show efficacy, and it would be possible to appropriately select patients who would benefit from the treatment. In addition, the availability of markers that can be used to classify breast tumors enables the retrospective examination of the thousands of breast tumor samples archived in hospitals and pathology labs. These samples can be classified using the inventive reagents and classification scheme, and the results can be correlated with the clinical outcome, based on medical records. Thus it is possible to determine whether tumors that fall into a particular tumor class, e.g., a basal tumor class, are responsive to a particular treatment. This will enable the re-evaluation of drugs that failed in clinical trials and may identify a subset of tumors that are likely to respond to a particular drug, and thus a subset of patients that are likely to benefit from treatment with that drug.

The inventors have recognized that in order to achieve these goals it is necessary to develop new and improved methods for classifying breast tumors. The inventive methods provide a molecular basis for classifying tumors, based on their underlying biology. While not wishing to be bound by any theory, the inventors postulate that tumors arising from a particular cell type within the breast are likely to display common features. Such features may include the prognosis (e.g., predicted survival time or likelihood that a patient's life expectancy exceeds a given length of time) or likelihood that a tumor will respond to a particular therapy.

In particular, tumors that display characteristics of basal cells of the normal breast lactation duct (also referred to herein as breast basal cells) form a distinct subclass (referred to herein as the basal subclass). Inventors have confirmed that patients with breast tumors whose cells display characteristics of breast basal cells, e.g., expression of cytokeratin 5 and/or cytokeratin 17, have a poor clinical outcome relative to patients with breast tumors that do not express these markers. However, antibodies to these cytokeratins have been found (by the inventors and by other

investigators) to give spotty, focal staining patterns when used to perform immunohistochemistry on breast tumor samples. Thus the utility of cytokeratins 5 and 17 as markers and the utility of antibodies that bind to cytokeratin 5 or 17 for determining whether a tumor is a member of the basal subclass has been limited. The  
5 inventors have therefore identified genes whose mRNA expression profiles across a large set of tumor samples correlate with, i.e. are similar to, the expression profiles of the known basal cell markers cytokeratins 5 and 17. These genes include the basal markers of the present invention mentioned above. As described in Examples 10 and 13, the inventors have generated antibodies to the proteins expressed by these genes  
10 and shown that the antibodies stain basal cells of normal mammary lactation glands. Thus detection of one or more expression products of these genes may be used to identify tumors that fall within the basal tumor subclass.

The invention further provides therapeutic agents based on the identification of breast basal cell markers. The therapeutic agents include compounds that modulate  
15 these genes or that modulate polypeptides encoded by these genes. In particular, the therapeutic agents include antibodies that bind to polypeptides encoded by the basal cell marker genes. The invention further includes agonists and antagonists to the basal marker genes, to the polynucleotides transcribed from those genes, and to their encoded polypeptides. The invention also provides methods for identifying such  
20 agonists and antagonists. The invention further includes pharmaceutical compositions comprising such antibodies, agonists, and antagonists as well as methods of use of the pharmaceutical compositions in the treatment of cancer, particularly breast cancer.

According to one aspect, the invention provides a method of classifying a tumor comprising the steps of (i) providing a tumor sample, (ii) detecting expression  
25 or activity of a gene encoding the polypeptide of SEQ ID NO:1 in the sample; and (iii) classifying the tumor as belonging to a tumor subclass based on the results of the detecting step. The invention also provides a method of classifying a tumor comprising the steps of (i) providing a tumor sample, (ii) detecting expression or activity of a gene encoding the polypeptide of SEQ ID NO:2 in the sample, and (iii)  
30 classifying the tumor as belonging to a tumor subclass based on the results of the detecting step. In addition, the invention provides a method of classifying a tumor comprising the steps of (i) providing a tumor sample, (ii) detecting expression or

activity of a gene encoding the polypeptide of SEQ ID NO:3 in the sample, and (iii) classifying the tumor as belonging to a tumor subclass based on the results of the detecting step. The invention further includes a method of classifying a tumor comprising the steps of (i) providing a tumor sample, (ii) detecting expression or activity of at least two genes selected from the group consisting of: a gene encoding the polypeptide of SEQ ID NO:1, SEQ ID NO:2, and SEQ ID NO:3 in the sample, and (iii) classifying the tumor as belonging to a tumor subclass based on the results of the detecting step. In any of the foregoing methods the detecting step may comprise detecting the polypeptide or polypeptides encoded by the genes. A variety of detection techniques may be employed including, but not limited to, immunohistochemical analysis, ELISA assay, antibody arrays, or detecting modification of a substrate by the polypeptide.

In certain embodiments of the methods the tumor is a breast tumor and the tumor subclass is a basal tumor subclass. The methods may further comprise providing diagnostic, prognostic, or predictive information based on the classifying step. Classifying may include stratifying the tumor (and thus stratifying a subject having the tumor), e.g., for a clinical trial. The methods may further comprise selecting a treatment based on the classifying step.

In another aspect, the invention provides a method of testing a subject comprising the steps of (i) providing a sample isolated from a subject, (ii) detecting expression or activity of a gene encoding the polypeptide of SEQ ID NO:1 in the sample, and (iii) providing diagnostic, prognostic, or predictive information based on the detecting step. The invention further provides a method of testing a subject comprising the steps of (i) providing a sample isolated from a subject, (ii) detecting expression or activity of a gene encoding the polypeptide of SEQ ID NO:2 in the sample (iii) and providing diagnostic, prognostic, or predictive information based on the detecting step. The invention further provides a method of testing a subject comprising the steps of (i) providing a sample isolated from a subject, (ii) detecting expression or activity of a gene encoding the polypeptide of SEQ ID NO:3 in the sample (iii) and providing diagnostic, prognostic, or predictive information based on the detecting step. The invention further includes a method of testing a subject comprising the steps of (i) providing a sample isolated from the subject, (ii) detecting

expression or activity of at least two genes selected from the group consisting of: a gene encoding the polypeptide of SEQ ID NO:1, SEQ ID NO:2, and SEQ ID NO:3 in the sample, and (iii) providing diagnostic, prognostic, or predictive information based on the detecting step. In any of these methods the detecting step may comprise  
5 detecting the polypeptide or polypeptides. Detection may be performed using any appropriate technique including, but not limited to, immunohistochemistry, ELISA assay, protein array, or detecting modification of a substrate by the polypeptide.

The sample may comprise mRNA, in which case the detecting step may comprise hybridizing the mRNA or cDNA or RNA synthesized from the mRNA to a  
10 microarray or detecting mRNA transcribed from the gene or detecting cDNA or RNA synthesized from mRNA transcribed from the gene. In any of the above methods, the sample may be a blood sample, a urine sample, a serum sample, an ascites sample, a saliva sample, a cell, and a portion of tissue.

In another aspect, the invention provides a kit for diagnosis of a tumor which  
15 may include (i) primers for amplifying an mRNA transcribed from a gene that encodes the polypeptide of any of SEQ ID NO:1, SEQ ID NO:2; and SEQ ID NO:3 (ii) instructions for use of the kit; and/or (iii) control samples for testing the primers, wherein the control samples comprise nucleic acids that hybridize to the primers.

In another aspect, the invention provides an antibody that specifically binds to  
20 an epitope found in a polypeptide whose amino acid sequence comprises the amino acid sequence of SEQ ID NO:1, and wherein the antibody recognizes basal cells in normal mammary lactation glands. According to certain embodiments of the invention the antibody distinguishes basal cells from luminal cells in normal mammary lactation gland. According to certain embodiments of the invention the  
25 antibody recognizes an epitope found in a peptide having an amino acid sequence selected from the group consisting of SEQ ID NO:4, SEQ ID NO:5, and SEQ ID NO:6.

In another aspect, the invention provides an antibody that specifically binds to an epitope found in a polypeptide whose amino acid sequence comprises the amino  
30 acid sequence of SEQ ID NO:2, and wherein the antibody recognizes basal cells in normal mammary lactation glands. According to certain embodiments of the invention the antibody distinguishes basal cells from luminal cells in normal



mammary lactation gland. According to certain embodiments of the invention the antibody recognizes an epitope found in a peptide having an amino acid sequence selected from the group consisting of SEQ ID NO:7, SEQ ID NO:8, and SEQ ID NO:9.

- 5           In another aspect, the invention provides an antibody that specifically binds to an epitope found in a polypeptide whose amino acid sequence the amino acid sequence of SEQ ID NO:3, and wherein the antibody recognizes basal cells in normal mammary lactation glands. According to certain embodiments of the invention the antibody distinguishes basal cells from luminal cells in normal mammary lactation
- 10   gland. According to certain embodiments of the invention the antibody recognizes an epitope found in a peptide having an amino acid sequence selected from the group consisting of SEQ ID NO:10, SEQ ID NO:11, and SEQ ID NO:12.

- The invention further provides a kit for tumor diagnosis comprising one or more of the foregoing antibodies. The kit may further include instructions for use of
- 15   the kit and/or a control slide comprising breast tissue samples for testing reagents in the kit or such samples themselves.

- According to another aspect, the invention provides a method of testing a compound or a combination of compounds for activity against tumors comprising steps of (i) obtaining or providing tumor samples taken from subjects who have been
- 20   treated with the compound or combination of compounds, wherein the tumors fall within a tumor subclass, (ii) comparing the response rate of tumors that fall within the tumor subclass and have been treated with the compound with the overall response rate of tumors that have been treated with the compound or combination of compounds or with the response rate of tumors that do not fall within the subclass and
- 25   have been treated with the compound or combination of compounds and (iii) identifying the compound or combination of compounds as having selective activity against tumors in the tumor subclass if the response rate of tumors in the subclass is greater than the overall response rate or the response rate of tumors that do not fall within the subclass. In certain embodiments of the invention the tumors are breast
- 30   tumors. In certain embodiments of the invention the tumor subclass is a basal tumor subclass. The tumors may be classified according to any of the inventive classification methods described above. In certain embodiments of the invention the

classification is based on expression of the polypeptide of SEQ ID NO:1, 2, 3, or a combination of these.

The invention further provides a method of testing a compound or a combination of compounds for activity against tumors comprising steps of (i) treating  
5 subjects in need of treatment for tumors with the compound or combination of compounds, (ii) comparing the response rate of tumors that fall within a tumor subclass with the overall response rate of tumors or with the response rate of tumors that do not fall within the subclass, and (iii) identifying the compound or combination of compounds as having selective activity against tumors in the tumor subclass if the  
10 response rate of tumors in the subclass is greater than the overall response rate or the response rate of tumors that do not fall within the subclass. The method may further comprise various additional steps. For example, the method may comprise steps of (i) providing tumor samples from subjects in need of treatment for tumors, (ii) determining whether the tumors fall within a tumor subclass, and (iii) stratifying the  
15 subjects based on the results of the determining step prior to performing the treating step. The method may further comprise the steps of (i) providing tumor samples from subjects in need of treatment for tumors, (ii) detecting expression or activity of a gene encoding the polypeptide of SEQ ID NO:1 in the samples, and (iii) stratifying the subjects based on the results of the detecting step prior to performing the treating step.  
20 The method may further comprise the steps of (i) providing tumor samples from subjects in need of treatment for tumors, (ii) detecting expression or activity of a gene encoding the polypeptide of SEQ ID NO:2 in the samples, and (iii) stratifying the subjects based on the results of the detecting step prior to performing the treating step. The method may further comprise the steps of (i) providing tumor samples from  
25 subjects in need of treatment for tumors, (ii) detecting expression or activity of a gene encoding the polypeptide of SEQ ID NO:3 in the samples, and (iii) stratifying the subjects based on the results of the detecting step prior to performing the treating step. The method may further comprise the steps of (i) providing tumor samples from subjects in need of treatment for tumors, (ii) detecting expression or activity of a gene  
30 encoding a polypeptide whose sequence comprises a sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, and SEQ ID NO:3 in the samples, and

(iii) stratifying the subjects based on the results of the detecting step prior to performing the treating step.

In addition, the invention includes a method of testing a compound or a combination of compounds for activity against tumors comprising steps of (i) treating  
5 subjects in need of treatment for tumors with the compound or combination of compounds or with an alternate compound, wherein the tumors fall within a tumor subclass, (ii) comparing the response rate of tumors treated with the compound or combination of compounds with the response rate of tumors treated with the alternate compound; and (iii) identifying the compound or combination of compounds as  
10 having superior activity against tumors in the tumor subclass, as compared with the alternate compound, if the response rate of tumors treated with the compound or combination of compounds is greater than the response rate of tumors treated with the alternate compound. The method may further comprise various additional steps. For example, the method may comprise steps of (i) providing tumor samples from  
15 subjects in need of treatment for tumors, (ii) determining whether the tumors fall within a tumor subclass, and (iii) stratifying the subjects based on the results of the determining step prior to performing the treating step. The method may further comprise the steps of (i) providing tumor samples from subjects in need of treatment for tumors, (ii) detecting expression or activity of a gene encoding the polypeptide of  
20 SEQ ID NO:1 in the samples, and (iii) stratifying the subjects based on the results of the detecting step prior to performing the treating step. The method may further comprise the steps of (i) providing tumor samples from subjects in need of treatment for tumors, (ii) detecting expression or activity of a gene encoding the polypeptide of  
25 SEQ ID NO:2 in the samples, and (iii) stratifying the subjects based on the results of the detecting step prior to performing the treating step. The method may further comprise the steps of (i) providing tumor samples from subjects in need of treatment for tumors, (ii) detecting expression or activity of a gene encoding the polypeptide of  
30 SEQ ID NO:3 in the samples, and (iii) stratifying the subjects based on the results of the detecting step prior to performing the treating step. The method may further comprise the steps of (i) providing tumor samples from subjects in need of treatment for tumors, (ii) detecting expression or activity of a gene encoding a polypeptide whose sequence comprises a sequence selected from the group consisting of SEQ ID

NO:1, SEQ ID NO:2, and SEQ ID NO:3 in the samples, and (iii) stratifying the subjects based on the results of the detecting step prior to performing the treating step.

In certain embodiments of the invention the alternate compound is a compound approved by the U.S. Food and Drug administration for treatment of  
5 tumors. The invention also provides a method of treating a subject comprising steps of (i) identifying a subject as having a tumor in a basal tumor subclass, and (ii) administering to the subject a compound identified according to any of the inventive methods for identifying a subject.

#In another aspect, the invention provides a method of treating a subject  
10 comprising steps of (i) providing a subject in need of treatment for cancer, (ii) administering to the subject an antibody that specifically binds to a polypeptide having an amino acid sequence comprising the sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3 or administering a combination of such antibodies. In certain embodiments of the invention the tumor is a breast tumor. In certain embodiments of  
15 the invention the antibody is conjugated with a toxic molecule.

The invention further provides a method of treating a subject comprising steps of (i) providing a subject in need of treatment for cancer, (ii) administering to the subject a compound that activates or inhibits a gene that encodes an amino acid having a sequence comprising the sequence of SEQ ID NO:1, SEQ ID NO:2, or SEQ  
20 ID NO:3, or that activates or inhibits an expression product of the gene.

In another aspect, the invention provides a composition comprising two or more compounds identified according to any of the methods described above for identifying compounds. The invention also provides a pharmaceutical composition comprising such a composition and a pharmaceutically acceptable carrier. The  
25 invention also provides a composition comprising (i) a compound identified according to any of the methods described above for identifying compounds and (ii) a second compound, wherein the second compound is approved by the U.S. Food and Drug administration for the treatment of cancer or has shown potential efficacy against cancer in pre-clinical studies. The invention also provides a pharmaceutical  
30 composition comprising such a composition and a pharmaceutically acceptable carrier.

The present application refers to various patents, publications, books, articles, and other references. The contents of all of these items are hereby incorporated by reference in their entirety. The present application also incorporates by reference six U.S. patent applications filed by inventors on July 26, 2001. These applications are

5 entitled "REAGENTS AND METHODS FOR USE IN MANAGING BREAST CANCER", "BSTP-RAS/RERG PROTEIN AND RELATED REAGENTS AND METHODS OF USE THEREOF", "BSTP-ECG1 PROTEIN AND RELATED REAGENTS AND METHODS OF USE THEREOF", "BSTP-CAD PROTEIN AND RELATED REAGENTS AND METHODS OF USE THEREOF", "BSTP-TRANS

10 PROTEIN AND RELATED REAGENTS AND METHODS OF USE THEREOF", "BSTP-5 PROTEINS AND RELATED REAGENTS AND METHODS OF USE THEREOF".

#### BRIEF DESCRIPTION OF THE DRAWING

- 15 Figure 1A presents the amino acid sequence of the polypeptide encoded by the basal marker gene known as cadherin 3 or P-cadherin (SEQ ID NO:1).  
Figure 1B presents the amino acid sequence of the polypeptide encoded by the basal marker gene known as matrix metalloproteinase 14 (SEQ ID NO:2).  
Figure 1C presents the amino acid sequence of the polypeptide encoded by the basal
- 20 marker gene known as cadherin EGF LAG seven-pass G-type receptor 2 or EGF-Like Domain, Multiple 2 (SEQ ID NO:3).  
Figure 1D presents the amino acid sequences of peptides used to raise antibodies that recognize the cadherin 3, matrix metalloproteinase 14, cadherin EGF LAG seven-pass G-type receptor 2, and cytokeratin 17 proteins.
- 25 Figure 2 shows a comparison of dendrograms representing the results of hierarchical clustering of experimental samples using the intrinsic gene set and the epithelial-enriched gene set.  
Figure 3 shows breast tissue immunohistochemistry results obtained using various antibodies.
- 30 Figure 3A shows tumor Stanford 2-P stained for immunoglobulin light chain.  
Figure 3B shows tumor Stanford 16 stained for the T-lymphocyte cell surface antigen CD3.

Figure 3C shows normal mammary duct stained for the basal epithelial cell keratins 5/6.

Figure 3D shows normal mammary duct stained for the luminal cell keratins 8/18.

Figure 3E shows tumor New York 3 stained for keratin 5/6.

- 5 Figure 3F shows tumor Stanford 16 stained for keratins 8/18.

Figure 4A shows a Western blot demonstrating expression of the cadherin3 polypeptide in various cell lines.

Figure 4B shows a Western blot demonstrating expression of the matrix metalloproteinase 14 polypeptide in various cell lines.

- 10 Figure 4C shows a Western blot demonstrating expression of the cadherin EGF LAG seven-pass G-type receptor 2 polypeptide in various cell lines.

Figure 5A shows a Kaplan-Meier survival curve demonstrating poor outcome in cytokeratin 17 and/or cytokeratin 5/6 positive tumors ( $p = 0.012$ ).

- 15 Figure 5B shows a Kaplan-Meier survival curve demonstrating poor outcome in cytokeratin 17 and/or cytokeratin 5/6 positive tumors in lymph node negative patients ( $p = 0.006$ ).

Figure 6 shows antibody staining of normal breast tissue cores in a breast tissue array.

Figure 6A shows staining with anti-cytokeratin 5/6 monoclonal antibody.

Figure 6B shows staining with anti-cadherin 3 polyclonal antibody.

- 20 Figure 6C shows staining with anti-EGF LAG seven-pass G-type receptor 2 polyclonal antibody.

Figure 6D shows staining with anti-metallproteinase 14 polyclonal antibody.

Figure 7 shows antibody staining of breast cancer tissue cores in a breast cancer tissue array.

- 25 Figure 7A shows antibody staining with anti-cytokeratin 5/6 monoclonal antibody.

Figure 7B shows antibody staining with anti-EGF LAG seven-pass G-type receptor 2 polyclonal antibody.

Figure 7C shows antibody staining with anti-cadherin 3 polyclonal antibody.

30 BRIEF DESCRIPTION OF THE TABLES

The tables contain the numerical data corresponding to microarray images. Some

tables list the individual genes in the various gene subsets or provide additional information.

Table 1 is a master data table for the 65 microarray experiments performed on individual tumor samples, in which rows represent I.M.A.G.E. clones that identify approximately 1753 genes whose expression varied by at least a factor of 4 and columns represent individual microarray experiments. The first 50 pages of the table consist of a reference list in which a descriptive name for each clone (where such a name exists) appears in the column entitled Name, followed by the Genbank accession number for the clone. Each row in the reference list contains a number in the first column that numerically identifies the column. In the subsequent data portion of the table (pages 1 – 392), each row is similarly identified by a number in the first column so that the name and Genbank accession number for the clone for which data appears in that row may be determined by consulting the reference list. In the data portion of the table, the column headings in the first row identify the tumor samples. Each data cell in the table represents the measured Cy5/Cy3 fluorescence ratio at the corresponding target element on the appropriate array. Empty cells indicate insufficient or missing data. All ratio values are log transformed (base 2) to treat inductions or repressions of identical magnitude as numerically equal but with opposite sign.

Table 2 is a master data table for the 19 microarray experiments performed on cell line samples, in which rows represent I.M.A.G.E. clones that identify approximately 1753 genes whose expression varied by at least a factor of 4 and columns represent individual microarray experiments. This table contains only a data portion, in which the column headings in the first row identify the cell lines. Each row in the table is identified by a number which appears in the first column. The same reference list that forms part of Table 1 may be consulted to determine the name and Genbank accession number for the clone for which data appears in that row. Each data cell in the table represents the measured Cy5/Cy3 fluorescence ratio at the corresponding target element on the appropriate array. Empty cells indicate insufficient or missing data. All ratio values are log transformed (base 2) to treat inductions or repressions of

identical magnitude as numerically equal but with opposite sign.

Table 3 presents a listing and description of the 11 cell lines used to create the common reference sample.

5

Table 4 presents a complete listing of the 84 experimental samples that were assayed versus the common reference sample. The table includes a list of alternate names (in the column entitled Sample ID/old name) for the same tumors. The alternate names are used to identify the tumor samples in certain contexts, and the table allows

10 conversion between the two sets of names.

Table 5 lists the tumors used in the experiments described herein, along with clinical and pathological information about each tumor/patient.

15 Table 6 is a master data table for the 84 microarray experiments performed on individual tumor, tissue, and cell line samples, in which rows represent I.M.A.G.E. clones that identify the 496 genes in the intrinsic gene set, and columns represent individual microarray experiments. The first 15 pages of the table consist of a reference list in which a descriptive name for each clone (where such a name exists)

20 appears in the column entitled Name, followed by the Genbank accession number for the clone. Each row in the reference list contains a number in the first column that numerically identifies the column. In the subsequent data portion of the table (pages 1 – 91), each row is similarly identified by a number in the first column so that the name and Genbank accession number for the clone for which data appears in that row

25 may be determined by consulting the reference list. In the data portion of the table, the column headings in the first row identify the tumor samples. Each data cell in the table represents the measured Cy5/Cy3 fluorescence ratio at the corresponding target element on the appropriate array. Empty cells indicate insufficient or missing data. All ratio values are log transformed (base 2) to treat inductions or repressions of

30 identical magnitude as numerically equal but with opposite sign.

Table 7 is a listing of the 374 clones that identify genes selected for the epithelial



enriched gene set including Genbank accession numbers.

Table 8 is a listing of the clones that identify genes that comprise the luminal subset including Genbank accession numbers.

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Tables 9-1 and 9-2 are listings of the two groups of clones that identify genes that comprise the basal subset including Genbank accession numbers.

Table 10 is a listing of the clones that identify genes that comprise the *ErbB2* subset including Genbank accession numbers.

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Table 11 is a listing of the clones that identify genes that comprise the endothelial gene subset including Genbank accession numbers.

Table 12 is a listing of the clones that identify genes that comprise the stromal/fibroblast gene subset including Genbank accession numbers.

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Table 13 is a listing of the clones that identify genes that comprise the B-cell gene subset including Genbank accession numbers.

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Table 14 is a listing of the clones that identify genes that comprise the adipose-enriched/normal breast gene subset including Genbank accession numbers.

Table 15 is a listing of the clones that identify genes that comprise the macrophage gene subset including Genbank accession numbers.

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Table 16 is a listing of the clones that identify genes that comprise the T-cell gene subset including Genbank accession numbers.

In Table 1, the Genbank accession number for each clone appears in the column entitled "Name", following a brief descriptive name for the gene identified by the clone, where available. In some cases the descriptive name is a number corresponding

30

to an I.M.A.G.E. clone ID number. As is well known and accepted in the art, the Genbank accession number represents a means of definitively identifying a particular clone, since Genbank accession numbers will be maintained permanently or, if changed, the change will be accomplished in such a manner as to allow unambiguous correlation between any new numbering system and the numbering system currently in use.

Note that Tables 1, 2, and 6 are provided for purposes of presenting the clone identifications and the data that was used to perform hierarchical clustering analysis, and that the format of the tables may not correspond exactly with the format required by software developed for the analysis of the data. Appropriate format will, in general, depend upon the particular computer program. See, for example, the Web site <http://genome-www.stanford.edu/~sherlock/tutorial.html> for discussion of the appropriate format for one particular analysis program.

In Tables 7 – 16, each entry identifies a clone. The first portion of each entry is a brief descriptive name for the gene identified by the clone. The Genbank accession number for the clone appears on the last line of the entry for that clone.

## DETAILED DESCRIPTION OF CERTAIN EMBODIMENTS

### DEFINITIONS

To facilitate understanding of the invention, the following definitions are provided. It is to be understood that, in general, terms not otherwise defined are to be given their meaning or meanings as generally accepted in the art.

**Agonist:** As used herein, the term “agonist” refers to a molecule that increases or prolongs the duration of the effect of a polypeptide or a nucleic acid. Agonists may include proteins, nucleic acids, carbohydrates, lipids, small molecules, ions, or any other molecules that modulate the effect of the polypeptide or nucleic acid. An agonist may be a direct agonist, in which case it is a molecule that exerts its effect by binding to the polypeptide or nucleic acid, or an indirect agonist, in which case it exerts its effect via a mechanism other than binding to the polypeptide or nucleic acid

(e.g., by altering expression or stability of the polypeptide or nucleic acid, by altering the expression or activity of a target of the polypeptide or nucleic acid, by interacting with an intermediate in a pathway involving the polypeptide or nucleic acid, etc.)

- 5 Antagonist: As used herein, the term "antagonist" refers to a molecule that decreases or reduces the duration of the effect of a polypeptide or a nucleic acid. Antagonists may include proteins, nucleic acids, carbohydrates, or any other molecules that modulate the effect of the polypeptide or nucleic acid. An antagonist may be a direct antagonist, in which case it is a molecule that exerts its effect by binding to the
- 10 polypeptide or nucleic acid, or an indirect antagonist, in which case it exerts its effect via a mechanism other than binding to the polypeptide or nucleic acid (e.g., by altering expression or stability of the polypeptide or nucleic acid, by altering the expression or activity of a target of the polypeptide or nucleic acid, by interacting with an intermediate in a pathway involving the polypeptide or nucleic acid, etc.)

15

- Basal cell: The term "basal cell" is a general term applied to any stratified or pseudostratified epithelium. It refers to cells which are juxtaposed to the basement membrane and under one or more additional epithelial layers. Mammary tissue can have both a two cell layer epithelium (basal and luminal cells) or in the duct system, a
- 20 single layered epithelium. In the two cell layer, the cells adjacent to the basement membrane are termed "basal cells" and express basal cell markers (e.g., cytokeratin 17 and cytokeratin 5/6). In pseudostratified epithelium "non-basal" cells can also contact the basement membrane but since normal breast epithelium is not, in general, pseudostratified, breast basal cells are cells located adjacent to basement membrane
- 25 and under one or more additional layers of epithelial cells. As used herein, the term "basal cell" is distinct from "myoepithelial cell" in that myoepithelial cell refers to cells that have the contractual apparatus for milk excretion by the ducts (i.e., they express contractile proteins).

30

Breast basal cell marker: A gene whose expression is characteristic of basal cells of normal breast lactation ducts, or an expression product of such a gene (e.g., an mRNA

or polypeptide). The marker may be used to distinguish basal cells from other cells in the breast, e.g., luminal cells. In the case of a marker that is a polypeptide, antibodies to the polypeptide stain cells in the basal layer of normal breast lactation ducts when used to perform immunohistochemistry on breast tissue samples. Since the present invention is concerned primarily with breast cancer, the term "basal cell marker" is used interchangeably with "breast basal cell marker" herein unless otherwise indicated. Examples of basal cell markers include the cytokeratin 5 and cytokeratin 17 genes, mRNAs, and proteins, in addition to the newly identified basal cell markers described herein.

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**Breast basal tumor marker:** A gene whose expression is characteristic of basal cells in the normal breast lactation duct and which is also expressed in a subset of breast tumors, or an expression product of such a gene. These genes include cytokeratin 5 and cytokeratin 17, which are known from the prior art to distinguish breast basal cells from other breast tissue cells, and the genes identified herein. Antibodies to the proteins encoded by these genes identify basal breast cells when used to perform immunohistochemical staining of normal breast tissue, i.e., they stain cells in the basal epithelial layer. The term "basal tumor marker" is used interchangeably with "breast basal tumor marker" herein unless otherwise indicated.

20

**Breast basal tumor subclass:** The breast basal tumor subclass, as used herein, refers to breast tumors that display characteristics of basal cells of normal breast lactation ducts. Such characteristics include expression of genes whose expression has been shown to discriminate between normal basal cells of breast lactation ducts and other cells in the breast, including luminal cells of breast lactation ducts. These genes include cytokeratin 5 and cytokeratin 17, which are known from the prior art to distinguish breast basal cells from other breast tissue cells, and the genes identified herein. Antibodies to the proteins encoded by these genes identify basal breast cells when used to perform immunohistochemical staining of normal breast tissue, i.e., they stain cells in the basal epithelial layer. The term "breast basal tumor subclass" is used interchangeably with "basal tumor subclass" herein unless otherwise indicated.

30

Diagnostic information: As used herein, diagnostic information or information for use in diagnosis is any information that is useful in determining whether a patient has a disease or condition and/or in classifying the disease or condition into a phenotypic category or any category having significance with regards to the prognosis of or likely response to treatment (either treatment in general or any particular treatment) of the disease or condition. Similarly, diagnosis refers to providing any type of diagnostic information, including, but not limited to, whether a subject is likely to have a condition (such as a tumor), information related to the nature or classification of a tumor, information related to prognosis and/or information useful in selecting an appropriate treatment. Selection of treatment may include the choice of a particular chemotherapeutic agent or other treatment modality such as surgery, radiation, etc., a choice about whether to withhold or deliver therapy, etc.

Differential expression: A gene exhibits differential expression at the RNA level if its RNA transcript varies in abundance between different samples in a sample set. A gene exhibits differential expression at the protein level, if a polypeptide encoded by the gene varies in abundance between different samples in a sample set. In the context of a microarray experiment, differential expression generally refers to differential expression at the RNA level.

Gene: For the purposes of the present invention, the term "gene" has its meaning as understood in the art. However, it will be appreciated by those of ordinary skill in the art that the term "gene" has a variety of meanings in the art, some of which include gene regulatory sequences (e.g., promoters, enhancers, etc.) and/or intron sequences, and others of which are limited to coding sequences. It will further be appreciated that definitions of "gene" include references to nucleic acids that do not encode proteins but rather encode functional RNA molecules such as tRNAs. For the purpose of clarity we note that, as used in the present application, the term "gene" generally refers to a portion of a nucleic acid that encodes a protein; the term may optionally encompass regulatory sequences. This definition is not intended to exclude application of the term "gene" to non-protein coding expression units but rather to

clarify that, in most cases, the term as used in this document refers to a protein coding nucleic acid.

Gene product or expression product: A gene product or expression product is, in  
5 general, an RNA transcribed from the gene or a polypeptide encoded by an RNA transcribed from the gene.

Marker: A marker, as used herein, refers to a gene whose expression is characteristic of a particular cell type. The term may also refer to a product of gene expression, e.g.,  
10 an RNA transcribed from the gene or a translation product of such an RNA, the production of which is characteristic of a particular cell type. The cell type may be defined based on any phenotypic criterion. For example, a normal breast basal cell is defined based on its position within an epithelial layer. In some cases expression of a marker gene may be the sole criterion used to define the cell type. The statistical  
15 significance of the presence or absence of a marker gene expression product may vary depending upon the particular marker. In some cases the detection of a marker is highly specific in that it reflects a high probability that the cell is of a particular type. This specificity may come at the cost of sensitivity, i.e., a negative result may occur even if the cell is a cell that would be expected to express the marker. Conversely,  
20 markers with a high degree of sensitivity may be less specific than those with lower sensitivity. Thus it will be appreciated that a useful marker need not distinguish cells of a particular type with 100% accuracy. Furthermore, it will be appreciated that the use of multiple markers may improve the specificity and/or sensitivity with which a cell can be identified as being of a particular cell type. The concept of a marker may  
25 be applied not only to individual cells, but also to tumors or to other disease states. In the case of tumors, a marker for a particular tumor class is a gene whose expression is characteristic of a particular tumor type, i.e., a gene whose expression is characteristic of some or all of the cells in the tumor. The term may also refer to a product of gene expression, e.g., an RNA transcribed from the gene or a translation product of such an  
30 RNA, the production of which is characteristic of a particular tumor type, i.e., of some or all of the cells in the tumor.

Prognostic information and predictive information: As used herein the terms prognostic information and predictive information are used interchangeably to refer to any information that may be used to foretell any aspect of the course of a disease or condition either in the absence or presence of treatment. Such information may include, but is not limited to, the average life expectancy of a patient, the likelihood that a patient will survive for a given amount of time (e.g., 6 months, 1 year, 5 years, etc.), the likelihood that a patient will be cured of a disease, the likelihood that a patient's disease will respond to a particular therapy (wherein response may be defined in any of a variety of ways). Prognostic and predictive information are included within the broad category of diagnostic information.

Response: As used herein a response to treatment may refer to any beneficial alteration in a subject's condition that occurs as a result of treatment. Such alteration may include stabilization of the condition (e.g., prevention of deterioration that would have taken place in the absence of the treatment), amelioration of symptoms of the condition, improvement in the prospects for cure of the condition, etc. One may refer to a subject's response or to a tumor's response. In general these concepts are used interchangeably herein. Tumor or subject response may be measured according to a wide variety of criteria, including clinical criteria and objective criteria. Techniques for assessing response include, but are not limited to, clinical examination, chest X-ray, CT scan, MRI, ultrasound, endoscopy, laparoscopy, presence or level of tumor markers in a sample obtained from a subject, cytology, histology. Many of these techniques attempt to determine the size of a tumor or otherwise determine the total tumor burden. Methods and guidelines for assessing response to treatment are discussed in Therasse P., *et al.*, "New guidelines to evaluate the response to treatment in solid tumors", European Organization for Research and Treatment of Cancer, National Cancer Institute of the United States, National Cancer Institute of Canada. J Natl Cancer Inst, Feb 2;92(3):205-16, 2000. The exact response criterion can be selected in any appropriate manner, provided that when comparing groups of tumors and/or patients, the groups to be compared are assessed based on the same or comparable criteria for determining response rate. One of ordinary skill in the art will be able to select appropriate criteria.

- Sample: As used herein, a sample obtained from a subject may include, but is not limited to, any or all of the following: a cell or cells, a portion of tissue, blood, serum, ascites, urine, saliva, and other body fluids, secretions, or excretions. The term
- 5 "sample" also includes any material derived by processing such a sample. Derived samples may include nucleic acids or proteins extracted from the sample or obtained by subjecting the sample to techniques such as amplification or reverse transcription of mRNA, etc.
- 10 Specific binding: As used herein, the term refers to an interaction between a target polypeptide (or, more generally, a target molecule) and a binding molecule such as an antibody, agonist, or antagonist. The interaction is typically dependent upon the presence of a particular structural feature of the target polypeptide such as an antigenic determinant or epitope recognized by the binding molecule. For example, if
- 15 an antibody is specific for epitope A, the presence of a polypeptide containing epitope A or the presence of free unlabeled A in a reaction containing both free labeled A and the antibody thereto, will reduce the amount of labeled A that binds to the antibody. It is to be understood that specificity need not be absolute. For example, it is well known in the art that numerous antibodies cross-react with other epitopes in addition
- 20 to those present in the target molecule. Such cross-reactivity may be acceptable depending upon the application for which the antibody is to be used. One of ordinary skill in the art will be able to select antibodies having a sufficient degree of specificity to perform appropriately in any given application (e.g., for detection of a target molecule, for therapeutic purposes, etc). It is also to be understood that specificity
- 25 may be evaluated in the context of additional factors such as the affinity of the binding molecule for the target polypeptide versus the affinity of the binding molecule for other targets, e.g., competitors. If a binding molecule exhibits a high affinity for a target molecule that it is desired to detect and low affinity for nontarget molecules, the antibody will likely be an acceptable reagent for immunodiagnostic purposes. Once
- 30 the specificity of a binding molecule is established in one or more contexts, it may be employed in other, preferably similar, contexts without necessarily re-evaluating its specificity.



Treating a tumor: As used herein, treating a tumor is taken to mean treating a subject who has the tumor.

- 5 Tumor sample: The term "tumor sample" as used herein is taken broadly to include cell or tissue samples removed from a tumor, cells (or their progeny) derived from a tumor that may be located elsewhere in the body (e.g., cells in the bloodstream or at a site of metastasis), or any material derived by processing such a sample. Derived tumor samples may include nucleic acids or proteins extracted from the sample or  
10 obtained by subjecting the sample to techniques such as amplification or reverse transcription of mRNA, etc.

- Tumor subclass: A tumor subclass, also referred to herein as a tumor subset or tumor class, is the group of tumors that display one or more phenotypic or genotypic  
15 characteristics that distinguish members of the group from other tumors.

#### I. Overview and Description of the Basal Marker Genes, Polynucleotides, and Polypeptides

- The present invention provides new reagents and methods for the management  
20 (e.g., detection, classification, provision of diagnostic and prognostic information, treatment, etc.) of breast cancer. Significant progress has been made in understanding risk factors, including genetic factors, that may contribute to breast cancer (See, for example, Vogelstein, B. and Kinzler, eds., "Breast Cancer", by Couch, F. and Weber, B. in *The Genetic Basis of Human Cancer*, McGraw Hill, 1998), but the relevance of  
25 these factors to clinical outcome remains unclear. The most powerful prognosticators are clinical features such as lymph node status, tumor size, and tumor grade. In addition, the expression level and antibody staining pattern of several proteins are predictive of outcome and of the likelihood of response to therapy. However, the clinical outcome of individual patients remains uncertain. In addition, the ability to  
30 predict which patients are likely to benefit from a particular type of therapy (e.g., a certain drug or class of drug) remains elusive.

The invention encompasses the realization that high throughput analysis techniques, e.g., those involving the use of cDNA microarrays, can be used to provide new insights into the biology of breast cancer. By analyzing the transcriptional profiles of a large number of breast tumor samples and by undertaking comparisons, e.g., between tumors associated with varying prognoses, between primary tumors and metastases, between tumors before and after treatment, and between tumors with differing responses to therapy, the present invention provides new tools and methods for classifying tumors and defines new classes of tumors based on these methods. The invention identifies genes and gene subsets that are useful in classifying breast tumors. In addition, the methods described herein identify genes that are likely to play a role in breast cancer development, progression, and/or response to therapy. Classification based on expression of particular genes may be used to predict clinical course or to predict sensitivity to chemotherapeutic agents. Ultimately such classification may be used to guide selection of appropriate therapy. As described herein, detection of mRNA and protein corresponding to differentially expressed genes provides new methods of use in cancer prognosis, diagnosis, and treatment selection. In addition, differentially expressed genes and their encoded proteins provide targets for the identification of new therapies for breast cancer.

As described in further detail below, the invention employs methods for clustering genes into groups by determining their expression patterns across a set of samples obtained from breast tumors and from normal breast tissue. The invention also clusters the breast tumor and normal breast tissue samples into groups based on similarities in their expression of a set of genes. This two-dimensional clustering approach permits the association of particular classes of tumors with particular subsets of genes that, for example, show relatively high levels of expression in the tumors. Correlation with clinical information indicates that the tumor classes have clinical significance in terms of prognosis or response to chemotherapy.

Genes that are relatively overexpressed in tumors may be particularly appropriate targets for the development of new therapeutic agents. Any gene (or combination of genes) that is overexpressed in some tumors forms a basis by which tumors can be divided into different groups. As demonstrated herein, when particular sets of genes are used such groups have clinical significance in that, for example, they

display differences in prognosis. However, regardless of whether the resulting division has significance in terms of known clinical parameters, therapeutic agents directed towards such genes or towards their encoded proteins would be expected to be specific for the tumors that overexpress the genes. Thus the invention offers an opportunity for the development and selection of therapeutic agents based on specific properties of a tumor. In other words, any gene that is overexpressed in a subset of tumors can be used to define that subclass and is a potential target for the development of a therapeutic agent that is specific for that tumor subclass.

In particular, tumors that display characteristics of basal cells of the normal breast lactation gland (also referred to herein as breast basal cells) form a distinct subclass (referred to herein as the basal subclass). It is known in the art that two distinct types of epithelial cells are found in the adult human mammary gland: basal cells and luminal epithelial cells. Expression of cytokeratin 5 and/or cytokeratin 17 is a characteristic of basal cells of the normal mammary lactation gland, while cytokeratins 8 and 18 are expressed in luminal cells. Cytokeratins are a family of intermediate filament proteins, members of which are found in most or all epithelial cell types (Moll, R., *et al.*, "The catalog of human cytokeratins: patterns of expression in normal epithelia, tumors, and cultured cells", *Cell*, 31(1), 11-24, 1982. Intermediate-sized filaments are morphologically similar but biochemically and immunologically distinguishable cytoplasmic proteins of which five major filament types have been identified (cytokeratin, vimentin, desmin, neurofilament protein, glia filament protein), and antibodies to these proteins have been used for distinguishing different cell types and tumors derived therefrom. Epithelial and carcinoma cells are characterized by the presence of cytokeratin filaments that can be identified by antibodies. These antibodies can be used to distinguish between different cell and tumor types (Dobus, E., *et al.*, "Immunohistochemical distinction of human carcinomas by cytokeratin typing with monoclonal antibodies", *Am J. Pathol.*, 114(1): 121-30, 1984). In particular, antibodies against cytokeratins 5/6, 17, 8, and 18 may be used to distinguish between breast basal and luminal cell types in normal breast and in tumors (See, e.g., Purkis, P., *et al.*, "Antibody markers of basal cells in complex epithelia", *J. Clin. Pathol.*, 48:26-32, 1990; Taylor, Papadimitriou and Lane, E., "Keratin expression in the mammary gland" in Neville, M and Daniel C, eds. *The*

*Mammary Gland: Development, Regulation, and Function*. New York: Plenum, pp. 181-215, 1987; Dairkee, S., *et al.*, "Immunolocalization of a human basal epithelium-specific keratin in benign and malignant breast disease. *Breast Cancer Res. Treat.*, 10:11-20, 1987.)

5           Several previous studies suggested that expression of basal cell keratins is associated with a poor clinical outcome (Dairkee, S.H., *et al.*, "Monoclonal antibody that predicts early recurrence of breast cancer", *Lancet*, 1:514, 1987; Malzahn, K., *et al.*, "Biological and prognostic significance of stratified epithelial cytokeratins in infiltrating ductal breast carcinomas", *Virchows Archiv*, 433:119-29, 1998). Inventors  
10 have confirmed, in a large-scale study, that patients with breast tumors whose cells display characteristics of breast basal cells, e.g., expression of cytokeratin 5 and/or cytokeratin 17, have a poor clinical outcome relative to patients with breast tumors that do not express these markers. However, antibodies to these cytokeratins have been found (by the inventors and by other investigators) to give spotty, focal staining  
15 patterns when used to perform immunohistochemistry on breast tumor samples. Thus the utility of cytokeratins 5 and 17 as markers and the utility of antibodies that bind to cytokeratin 5 or 17 for determining whether a tumor is a member of the basal subclass has been limited.

The inventors have therefore identified genes whose mRNA expression profiles  
20 across a large set of tumor samples correlate with, i.e., are similar to, the expression profiles of the known basal cell markers cytokeratins 5 and 17. These genes include the basal marker genes of the present invention, i.e., genes that encode cadherin3 or P-cadherin (SEQ ID NO:1; GenBank protein accession number NP\_001399; GenBank cDNA accession number NM\_001408), matrix metalloproteinase 14 (SEQ ID NO:2;  
25 GenBank protein accession number NP\_004986; GenBank cDNA accession number NM\_004995); and cadherin EGF LAG seven-pass G-type receptor 2 or EGF-Like Domain, Multiple 2 (SEQ ID NO:3; GenBank protein accession number NP\_001784; GenBank cDNA accession number NM\_001793). A portion of the cadherin3 gene was present as I.M.A.G.E. clone 777301 on the cDNA microarray described below.  
30 This clone is entry #421 in Table 1. A portion of the matrix metalloproteinase 14 gene was present as I.M.A.G.E. clone 270505 on the cDNA microarray described below. This clone is entry #424 in Table 1. A portion of the cadherin EGF LAG

seven-pass G-type receptor 2 gene was present as I.M.A.G.E. clone 175103 on the cDNA microarray described below. This clone is entry #1443 in Table 1.

Information about these genes may be found at NCBI's LocusLink (<http://www.ncbi.nlm.nih.gov/LocusLink>), among other sources. As described in

- 5 Examples 10 and 13, the inventors have generated antibodies to the proteins expressed by these genes and shown that the antibodies stain basal cells of normal mammary lactation glands. Thus detection of one or more expression products of these genes may be used to identify tumors that fall within the basal tumor subclass.

- As is well known in the art, breast carcinomas lose the typical histology and architecture of normal breast glands. Generally, carcinoma cells overgrow the normal  
10 cells and lose their ability to differentiate into glandular like structures. The degree of loss of differentiation in general is related to the aggressiveness of the tumor. For example, "in situ" carcinoma by definition retains the basement membrane intact, whereas as it progresses to "invasive", the tumor shows breakout of basement  
15 membranes. Thus one would not expect to see, within breast carcinomas, staining of a discrete layer of basal cells as seen in normal breast tissue. For a discussion of the physiology and histology of normal breast and breast carcinoma, see Ronnov-Jessen, L., Petersen, O. W. & Bissell, M. J. Cellular changes involved in conversion of normal to malignant breast: importance of the stromal reaction. *Physiol Rev* 76, 69-  
20 125 (1996).

- The basal marker genes provided herein are expressed in the best model of basal cells (HMECs, Human Mammary Epithelial Cells) and based on antibody staining, in normal breast basal cells. Therefore describing them as basal markers is  
25 appropriate. However, in addition to their specific staining properties, a major characteristic that makes these genes and their expression products useful is their variation in expression across cohorts of breast carcinoma patients, which portends their utility in stratification of breast carcinoma patients. While not wanting to be limited by the implications of having chosen a particular  
30 descriptor (i.e. "basal") inventors refer to the set of genes, proteins, and antibody reactivity patterns as "basal" as it serves as a reminder of their utility in recognizing breast tumor cells that have characteristics

reminiscent of normal breast basal cells. Breast tumors containing such cells are likewise referred to as "basal" without intending any limitations thereby.

Two of the basal marker genes, cadherin3 and cadherin EGF LAG seven-pass G-type receptor 2 encode members of the cadherin superfamily. The cadherin EGF LAG seven-pass G-type receptor 2 or EGF-Like Domain, Multiple 2 protein is a member of the flamingo subfamily, part of the cadherin superfamily. The cadherins are a large family of proteins with critical roles in the regulation of cell-cell adhesion. Generally expressed in development- or tissue-specific manners, these factors have been shown to have important roles in development, cellular proliferation, and differentiation. The cadherin superfamily include classic cadherins, desmogleins, desmocollins, protocadherins, CNRs, Fats, and seven-pass transmembrane cadherins (for review see Nollet *et al.* 2000). Typically transmembrane proteins, the cadherins are characterized by the unique cadherin, or EC, domain. These cadherin domains, which are involved in  $\text{Ca}^{++}$  binding (Takeichi 1990), are repeated in the extracellular region of all of the family members. The amino acid sequences of other regions shows significant divergence among members, suggesting functional diversity amongst the various cadherin proteins. However, amid the members of each subfamily, the cytoplasmic domains are conserved. In the classic cadherins, which are components of adherens junctions and desmoplakin plaques, this region interacts with catenin p120<sup>cas</sup>, and plakoglobin or  $\beta$ -catenin. The latter binds to  $\alpha$ -catenin, and this molecular complex further associates with  $\alpha$ -actinin, F-actin and other cytoskeletal proteins. Consistent with their roles in regulating cell-cell adhesion events, altered expression of cadherin genes has been associated with human cancer. Alteration of cadherin function may lead to subsequent metastasis by disaggregation of tumor cells, and one proposed role of many cadherins studied to date is as tumor- and invasion-suppressors. Further discussion of some of the many members of the cadherin superfamily and their possible role in cancer is found in references 53-61.

The flamingo subfamily consists of nonclassic-type cadherins; a subpopulation that does not interact with catenins. The flamingo cadherins are located at the plasma membrane and have nine cadherin domains, seven epidermal growth factor-like repeats and two laminin A G-type repeats in their ectodomain. They also have seven transmembrane domains, a characteristic unique to this subfamily. While not wishing

to be bound by any theory, it is postulated that these proteins are receptors involved in contact-mediated communication, with cadherin domains acting as homophilic binding regions and the EGF-like domains involved in cell adhesion and receptor-ligand interactions. The cadherin EGF LAG seven-pass G-type receptor 2 gene (also known as CELSR2) has not been as extensively studied as the classic cadherins, but is implicated in cell signaling. The *Drosophila* homolog of this gene has been studied in more detail, and is clearly important in regulating different cellular events (Usui T, Shima Y, Shimada Y, Hirano S, Burgess RW, Schwarz TL, Takeichi M, Uemura T, "Flamingo, a seven-pass transmembrane cadherin, regulates planar cell polarity under the control of Frizzled", *Cell* 1999 Sep 98:585-95.

While not wishing to be bound by any theory, it is postulated that this protein is a receptor involved in contact-mediated communication, with the cadherin domains acting as homophilic binding regions and the EGF-like domains involved in cell adhesion and receptor-ligand interactions.

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, matrix metalloproteinase 14 protein is a member of the membrane-type MMP (MT-MMP) subfamily; each member of this subfamily contains a potential transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. This protein activates MMP2 protein, and this activity may be involved in tumor invasion.

Cadherin3 is predicted to be membrane-bound, with an extracellular portion. As indicated by the presence of seven putative transmembrane domains, cadherin EGF LAG seven-pass G-type receptor 2 is also likely to be a membrane bound protein. The presence of a predicted transmembrane domain indicates that matrix metalloproteinase 14 is also membrane bound. The likelihood that the proteins encoded by the basal marker genes are membrane bound makes them attractive candidate for the application of serological assays for diagnostic purposes. In addition,

the likelihood that cadherin3, cadherin EGF LAG seven-pass G-type receptor 2, and matrix metalloproteinase 14 are membrane bound makes them attractive candidates for antibody therapeutics.

The invention provides antibodies that specifically bind to the polypeptide expression products of the basal marker genes, i.e., the polypeptides of SEQ ID NO:1, 2, and 3. The antibodies stain basal cells of the normal mammary lactation gland. In certain embodiments of the invention the antibodies distinguish basal cells from luminal cells in normal mammary lactation glands.

The antibodies are potentially useful as therapeutic reagents for cancer, particularly breast cancer, either by themselves or when conjugated to or delivered with another molecule such as a toxic compound. The invention further provides pharmaceutical compositions comprising agonists or antagonists of the polynucleotides and their encoded polypeptides, and methods of use thereof for the treatment of cancer. The invention includes a variety of methods for providing information of use in the prognosis, classification, diagnosis, etc. of cancer, particularly breast cancer.

In order that the manner in which the basal cell marker genes of the present invention were identified may be better understood, a description of cDNA microarray technology is provided below. Following this description the specific experimental approach employed herein is described. Certain aspects of the invention are then described in further detail.

## II. cDNA Microarray Technology

cDNA microarrays consist of multiple (usually thousands) of different cDNAs spotted (usually using a robotic spotting device) onto known locations on a solid support, such as a glass microscope slide. The cDNAs are typically obtained by PCR amplification of plasmid library inserts using primers complementary to the vector backbone portion of the plasmid or to the gene itself for genes where sequence is known. PCR products suitable for production of microarrays are typically between 0.5 and 2.5 kB in length. Full length cDNAs, expressed sequence tags (ESTs), or randomly chosen cDNAs from any library of interest can be chosen. ESTs are partially sequenced cDNAs as described, for example, in L. Hillier, et al., Generation



and analysis of 280,000 human expressed sequence tags, *Genome Research*, 6, 807-828, 1996. The afore-mentioned article is herein incorporated by reference, as are the entire teachings of all other patents and journal articles mentioned herein, for all purposes and not just those related to the particular context in which they are

5 mentioned. Although some ESTs correspond to known genes, frequently very little or no information regarding any particular EST is available except for a small amount of 3' and/or 5' sequence and, possibly, the tissue of origin of the mRNA from which the EST was derived. As will be appreciated by one of ordinary skill in the art, in general the cDNAs contain sufficient sequence information to uniquely identify a gene within

10 the human genome. Furthermore, in general the cDNAs are of sufficient length to hybridize, preferably specifically and yet more preferably uniquely, to cDNA obtained from mRNA derived from a single gene under the hybridization conditions of the experiment.

In a typical microarray experiment, a microarray is hybridized with

15 differentially labeled RNA or DNA populations derived from two different samples. Most commonly RNA (either total RNA or poly A<sup>+</sup> RNA) is isolated from cells or tissues of interest and is reverse transcribed to yield cDNA. Labeling is usually performed during reverse transcription by incorporating a labeled nucleotide in the reaction mixture. Although various labels can be used, most commonly the

20 nucleotide is conjugated with the fluorescent dyes Cy3 or Cy5. For example, Cy5-dUTP and Cy3-dUTP can be used. cDNA derived from one sample (representing, for example, a particular cell type, tissue type or growth condition) is labeled with one fluor while cDNA derived from a second sample (representing, for example, a different cell type, tissue type, or growth condition) is labeled with the second fluor.

25 Similar amounts of labeled material from the two samples are cohybridized to the microarray. In the case of a microarray experiment in which the samples are labeled with Cy5 (which fluoresces red) and Cy3 (which fluoresces green), the primary data (obtained by scanning the microarray using a detector capable of quantitatively detecting fluorescence intensity) are ratios of fluorescence intensity (red/green, R/G).

30 These ratios represent the relative concentrations of cDNA molecules that hybridized to the cDNAs represented on the microarray and thus reflect the relative expression levels of the mRNA corresponding to each cDNA/gene represented on the microarray.

Each microarray experiment can provide tens of thousands of data points, each representing the relative expression of a particular gene in the two samples. Appropriate organization and analysis of the data is of key importance. Various computer programs that incorporate standard statistical tools have been developed to facilitate data analysis. One basis for organizing gene expression data is to group genes with similar expression patterns together into clusters. A method for performing hierarchical cluster analysis and display of data derived from microarray experiments is described in Eisen, M., Spellman, P., Brown, P., and Botstein, D., Cluster analysis and display of genome-wide expression patterns, *Proc. Natl. Acad. Sci. USA*, 95: 14863-14868, 1998. As described therein, clustering can be combined with a graphical representation of the primary data in which each data point is represented with a color that quantitatively and qualitatively represents that data point. By converting the data from a large table of numbers into a visual format, this process facilitates an intuitive analysis of the data. Additional information and details regarding the mathematical tools and/or the clustering approach itself may be found, for example, in Sokal, R.R. & Sneath, P.H.A. Principles of numerical taxonomy, xvi, 359, W. H. Freeman, San Francisco, 1963; Hartigan, J.A. Clustering algorithms, xiii, 351, Wiley, New York, 1975; Paull, K.D. et al. Display and analysis of patterns of differential activity of drugs against human tumor cell lines: development of mean graph and COMPARE algorithm. *J Natl Cancer Inst* 81, 1088-92, 1989; Weinstein, J.N. et al. Neural computing in cancer drug development: predicting mechanism of action. *Science* 258, 447-51, 1992; van Osdol, W.W., Myers, T.G., Paull, K.D., Kohn, K.W. & Weinstein, J.N. Use of the Kohonen self-organizing map to study the mechanisms of action of chemotherapeutic agents. *J Natl Cancer Inst* 86, 1853-9, 1994; and Weinstein, J.N. et al. An information-intensive approach to the molecular pharmacology of cancer. *Science*, 275, 343-9, 1997.

Further details of the experimental methods used in the present invention are found in the Examples. Additional information describing methods for fabricating and using microarrays is found in U.S. Patent No. 5,807,522, which is herein incorporated by reference. Instructions for constructing microarray hardware (e.g., arrayers and scanners) using commercially available parts can be found at <http://cmgm.stanford.edu/pbrown/> and in Cheung, V., Morley, M., Aguilar, F.,

Massimi, A., Kucherlapati, R., and Childs, G., Making and reading microarrays, *Nature Genetics Supplement*, 21:15-19, 1999, which are herein incorporated by reference. Additional discussions of microarray technology and protocols for preparing samples and performing microrarray experiments are found in, for example,

5 DNA arrays for analysis of gene expression, *Methods Enzymol*, 303:179-205, 1999; Fluorescence-based expression monitoring using microarrays, *Methods Enzymol*, 306: 3-18, 1999; and M. Schena (ed.), DNA Microarrays: A Practical Approach, Oxford University Press, Oxford, UK, 1999. Descriptions of how to use an arrayer and the associated software are found at

10 <http://cmgm.stanford.edu/pbrown/mguide/arrayerHTML/ArrayerDocs.html>, which is herein incorporated by reference.

### III. Experimental Approach of the Invention

15 The present invention encompasses the realization that genes that are differentially expressed are of use in classifying tumors. Differentially expressed genes are likely to be responsible for the different phenotypic characteristics of tumors. The present invention identifies such genes. In general, a differentially expressed gene is a gene whose transcript abundance varies between different

20 samples, e.g., between different tumor samples, between normal versus tumor samples, etc. In the case of the experiment described herein, the transcript level of a differentially expressed gene varies by at least 4-fold from its average abundance in a given sample set in at least 3 of the samples. However, genes that display smaller variations in expression are also within the scope of the invention. In general, the

25 amount by which the expression varies and the number of samples in which the expression varies by that amount will depend upon the number of samples and the particular characteristics of the samples. One skilled in the art will be able to determine, based on knowledge of the samples, what constitutes a significant degree of differential expression.

30 While analysis of multiple genes is of use in developing a robust classification of tumors, each of the differentially expressed genes and their encoded proteins is a target for the development of diagnostic and therapeutic agents. Investigation of

- variation in individual genes in breast tumors reveals that molecular variation can be related to important features of clinical variation. For example, expression of the estrogen receptor alpha gene (*ESR1*), the *Erb-B2/HER2/neu* oncogene, and the mutational status at the *TP53*, *BRCA1* and *BRCA2* loci have shown that molecular
- 5 variation can be related to important features of clinical variation. (Discussed, for example, in Osborne, C.K., *et al.*, The value of estrogen and progesterone receptors in the treatment of breast cancer, *Cancer* 46, 2884-2888, 1980; Ingvarsson, S., Molecular genetics of breast cancer progression, *Seminars in Cancer Biology*, 9, 277-288, 1999;
- 10 Breast Cancer Linkage Consortium, Pathology of familial breast cancer: differences between breast cancers in carriers of *BRCA1* and *BRCA2* mutations and sporadic cases, *Lancet*, 349, 1505-1510, 1997; Anderson, T. I., *et al.*, Prognostic significance of *TP53* alterations in breast carcinoma. *Br J Cancer*, 68, 540-548, 1993 and references cited in these articles). In particular, approximately 60% to 70% of breast tumors
- 15 express the estrogen receptor, and this expression has been shown to be a favorable prognostic factor (reviewed in Allred, D.C., *et al.* Prognostic and Predictive Factors in Breast Cancer by Immunohistochemical Analysis, *Modern Pathology*, 11(2), 155-168, 1998).

As described in more detail in Examples 1, 2, and 4, cDNA microarrays each

20 representing the same set of approximately 8100 different human genes were produced. The human cDNA clones used to produce the microarrays contained approximately 4000 named genes, 2000 genes with homology to named genes in other species, and approximately 2000 ESTs of unknown function. An mRNA sample was obtained from each of a set of 84 tissue samples or cell lines. The expression levels of

25 the approximately 8100 genes were measured in each mRNA sample by hybridization to an individual microarray, yielding an expression profile for each gene across the experimental samples. Although more details will be found in the Examples, an overview of the experimental procedure is presented here so that the invention may be better understood.

30 Variation in patterns of gene expression were characterized in 62 breast tumor samples from 40 different patients, 3 normal breast tissue samples, and 19 samples from 17 cultured human cell lines (one of which was sampled 3 times under different

conditions). Twenty of the tumors had been sampled twice, before and after a 16 week course of doxorubicin chemotherapy, and two tumors were paired with a lymph node metastasis from the same patient. The other 18 tumor samples were single samples from individual tumors. A detailed listing of the tumor samples and various characteristics including clinical estrogen receptor and Erb-B2 status as assessed using antibody staining, estrogen receptor and Erb-B2 status as assessed by microarray result, tumor grade, differentiation, survival status and time, age at diagnosis, doxorubicin response, and p53 status is presented in Table 5. A listing of the cell lines including description and ATCC (American Tissue Culture Collection) number or reference is presented in Table 3. The cell lines provided a framework for interpreting the variation in gene expression patterns seen in the tumor samples and included gene expression models for many of the cell types encountered in tumors.

As described in more detail in Example 2, mRNA was isolated from each sample. cDNA labeled with the fluorescent dye Cy5 was prepared from each experimental sample separately. Fluorescently labeled cDNA, labeled using a second distinguishable dye (Cy3), was prepared from a pool of mRNAs isolated from 11 different cultured cell lines. The pooled mRNA sample served as a reference to provide a common internal standard against which each gene's expression in each experimental sample was measured.

Comparative expression measurements were made by separately mixing Cy5-labeled experimental cDNA derived from each of the 84 samples with a portion of the Cy3-labeled reference cDNA, and hybridizing each mixture to an individual cDNA microarray. The ratio of Cy5 fluorescence to Cy3 fluorescence measured at each cDNA element on the microarray was then quantitatively measured. The use of a common reference standard in each hybridization allowed the fluorescence ratios to be treated as comparative measurements of the expression level of each gene across all the experimental samples.

A hierarchical clustering method (Eisen, *et al.*, 1998) was used to group genes based on similarity in the pattern with which their expression varied over all experimental samples. The same clustering method was used to group the experimental samples (tissue and cell lines separately) based on the similarity in their patterns of expression. Interpretation of the data obtained from the clustering

algorithm was facilitated by displaying the data in the form of tumor and gene dendrograms. In the tumor dendrograms, the pattern and length of the branches reflects the relatedness of the tumor samples with respect to their expression of genes represented on the microarray. Microarray images and tumor and gene dendrograms are available in Perou, et al, *Nature*, 2000, and at inventors' Web site (<http://genome-www.stanford.edu/molecularportraits/>). In general, the similarity of the gene expression profiles of individual tumor samples or groups of tumor samples to one another is inversely related to the length of the branches that connect them. Thus, for example, adjacent tumor samples connected to one another by short vertical branches descending from a common horizontal branch (e.g., tumor samples Norway 48-BE and Norway 48-AF close to the right of the tumor dendrogram) are more closely related to one another in terms of their gene expression profiles than adjacent tumor samples connected to one another by longer vertical branches descending from a common horizontal branch (e.g., tumor samples Norway 100-BE and Norway 100-AF at the left side of the tumor dendrogram). To the extent that the gene expression programs dictate the biological properties and behavior of the tumors and reflect their physiological state and environment, it is expected that the clustering of the tumors reflects phenotypic relationships among them, e.g., tumor samples connected by short horizontal branches (i.e., located in close proximity to one another) are expected to exhibit similar phenotypic features. In the gene dendrograms, the pattern and length of the branches reflects the relatedness of the genes with respect to their expression profiles across the tumor samples. Similarly to the tumor samples, genes connected by short vertical branches are more similar to one another in terms of expression profile than genes connected by longer vertical branches.

The expression patterns of the genes were also displayed using a matrix format, with each row representing all of the hybridization results for a single cDNA element on the array and each column representing the measured expression levels for all genes in a single sample. In this format, tumor samples with similar patterns of expression across the gene set are close to each other along the horizontal dimension. Similarly, genes with similar expression patterns across the set of samples are close to each other along the vertical dimension. To allow the patterns of expression to be visualized, the normalized expression value of each gene was represented by a colored

box, using red to represent expression levels greater than the median and green to represent expression levels less than the median. In all images the brightest red color represents transcript levels at least 16-fold greater than the median, and the brightest green color represents transcript levels at least 16-fold below the median. This display format facilitates comparisons between genes and the recognition of significant patterns.

As described herein, systematic investigation of gene expression patterns in human breast tumors and their correlation to specific features of phenotypic variation offers a basis for an improved molecular taxonomy of breast cancers. Such a taxonomy has significant clinical utility. For example, correlation of gene expression patterns with outcome in the absence of treatment is of use in deciding whether a patient should receive adjuvant chemotherapy after surgery. As another example, genes whose expression level varies between tumors that are sensitive to chemotherapy and tumors that are resistant to chemotherapy are of use in predicting likelihood of response and in selection of appropriate treatment. Genes whose expression level varies between tumor samples taken before and after therapy are of use in understanding the response of tumors to treatment.

#### IV. Further Aspects of the Invention

##### A. Basal tumor subclasses and corresponding gene subsets

Gene and tumor dendrograms were derived from data obtained by performing a microarray analysis on the set of breast tumor and breast tissue samples described above, using a set of genes (the "intrinsic" gene set) described further below and in Example 8. Appendices A and C present the resulting tumor dendrograms and color matrix displays of the gene expression profiles obtained. Although technically the dendrograms identify groups of tumor samples, since each sample is obtained from a specific tumor the dendrograms also identify groups of tumors. Thus, in general, a group of tumor samples corresponds to a group of tumors. Therefore, throughout most of the discussion herein reference will be made to tumor groups, classes, etc., rather than tumor sample groups, classes, etc. The clustering method permits the identification of subsets of genes with related expression profiles across a set of tumors and the identification of groups or classes of tumors with similar expression

profiles across a set of genes. Although the existence of gene subsets is revealed by the display of the data in dendrogram format, understanding the significance of the gene subsets obtained in experiments such as those described above requires interpretation in light of knowledge about the genes and tumor samples. Groups of  
5 tumors identified based on their expression patterns of sets of genes (e.g., groups of tumors that overexpress genes in particular gene subsets) can be designated as tumor classes when deemed significantly distinct to warrant a distinct classification.

Table 5 includes information regarding the clinical outcome of the tumors from which the samples were obtained. In particular, the table includes survival time  
10 of the patients and, for some of the tumors, whether or not the tumor responded to chemotherapy (doxorubicin). Such information was used to demonstrate that the basal tumor class is characterized by a poor clinical outcome relative to the other tumors. Differences in survival between groups of patients was demonstrated using the Kaplan-Meier technique for survival analysis, which is implemented in computer  
15 software such as the SAS package (SAS Institute, Inc, Cary, NC) and described in the accompanying manual. Of course various other statistical techniques can be used to detect differences in survival or any other clinical parameters between groups of tumors. Various appropriate statistical techniques useful for analyzing survival are discussed, for example, in Lawless, J.F., *Statistical Models and Methods for Lifetime*  
20 *Data*. New York: John Wiley & Sons, 1982. Lee, Elisa T. *Statistical Methods for Survival Data Analysis*. 2nd ed. New York: John Wiley & Sons, 1992. Marubini, Ettore, and Valsecchi, Maria Grazia, *Analysing Survival Data from Clinical Trials and Observational Studies*. New York: John Wiley & Sons, 1995. Miller, Rupert G. Jr. *Survival Analysis*. New York: John Wiley & Sons, 1981. Rosner, Bernard,  
25 *Fundamentals of Biostatistics*. 4th ed. Belmont, California: Duxbury Press, 1995.) Other clinical parameters of importance include response to therapy, time to recurrence, etc.

As will be appreciated by one of ordinary skill in the art, the correlation of particular tumor groups with survival or other parameters of clinical importance can be  
30 strengthened by the inclusion of data obtained from additional tumor samples.

The invention identifies genes and gene subsets that are associated with the basal tumor subclass. The genes and gene subsets are identified in part by the



overexpression of certain members of each subset in a particular tumor group and are also defined in part based on the proximity of genes within each subset to one another in a gene dendrogram. As used herein unless otherwise stated, a gene is overexpressed in a tissue sample at the RNA level if a mRNA corresponding to (i.e., transcribed from) the gene is present in excess relative to the median abundance of that mRNA across the set of analyzed specimens. A gene is overexpressed in a tissue sample at the protein level if a polypeptide corresponding to (i.e., translated from a mRNA that was transcribed from) the gene is present in excess relative to the abundance of that polypeptide across the set of analyzed specimens. The measurement of relative abundance using cDNA microarrays relies upon the comparison of all samples relative to a common reference sample that provides cognate mRNA for as many genes as possible with the goal of providing a common denominator for the measured ratios across all samples. Each tested sample can be compared to all other tested samples in ratio units relative to the reference. This allows reproducible determination of gene expression in each tested sample relative to the median gene expression across any given sample set (Ross, DT, et al., Systematic variation in gene expression patterns in human cancer cell lines, *Nat Genet.* 2000 Mar;24(3):227-35, 2000). In general, an appropriate reference sample comprises a renewable source of diverse cell samples such as a mixture of cells obtained from the panel of 11 cell lines listed in Table 3. A particularly preferred reference sample is one in which all relevant genes are represented in significant abundance above measured background. This provides for a reproducible measurement of reference signal for all relevant genes. As is well known in the art, there is generally a correlation between overexpression or underexpression at the RNA level and overexpression or underexpression at the protein level. In other words, if a mRNA is overexpressed then it is highly likely that the corresponding polypeptide is also overexpressed, and if a mRNA is underexpressed then it is highly likely that the corresponding polypeptide is underexpressed. Therefore, detection of either mRNA or a corresponding polypeptide is generally sufficient to determine whether a particular gene is over or underexpressed. However, as is well known in the art, in certain situations it may be more convenient and/or practical to detect mRNA while in other situations it may be more convenient and/or practical to detect polypeptides.

As mentioned above, genes that are overexpressed in one or more samples may be identified by examining the microarray data displayed in matrix format, wherein red squares indicate overexpression. The basal gene subset includes a number of genes known to be expressed in basal epithelial cells (e.g., cytokeratins 5 and 17) and is characterized in that certain of the genes in the subset are overexpressed at the RNA level in samples obtained from a subset of tumors that had a poor prognosis relative to the entire group of tumors (the basal group). Referring to Perou, et al, Nature, 2000, the basal gene subset comprises two subsets identified with a blue bar and a green bar along the side of the color matrices. Genes in the basal gene subset are, in general, overexpressed in tumors in the basal tumor group (identified with orange dendrogram branches). Of course it will be appreciated that additional genes, not necessarily falling into either of the two basal gene subsets, also have an expression pattern similar to that of cytokeratin 5 and/or cytokeratin 17.

It will be appreciated that not all of the genes are overexpressed to a similar extent within a particular group of tumors and that expression of any given gene will likely vary between different tumors in a group. For example, genes identified as "Cytochrome P450, subfamily IIA" and "Lymphoid nuclear protein related to AF4" are significantly overexpressed in tumors at the far right of the luminal tumor group (Stanford 24, Norway 27, 28, 26, and 56) while they are expressed at lesser levels in other members of the luminal tumor group. Conversely, genes identified as "417081" and "Homo Sapiens PWD gene mRNA, 3' end" are, in general, relatively underexpressed in these tumors. However, the overall expression patterns of genes in each subset over all tissue samples, are sufficiently similar to cause them to cluster in close proximity on the gene dendrogram. Thus whether a gene is a member of one of the inventive gene subsets is not determined solely on the basis of the overexpression of that gene within a tumor subset but also on the relationship of the overall expression pattern of the gene to the expression pattern of other genes within the subset. It will further be appreciated that a gene may be overexpressed in more than one tumor group. For example, certain of the genes in the basal subset are expressed in a group identified with green dendrogram branches, which includes both tumor and normal tissue samples, in addition to being overexpressed in the basal tumor group.

B. Diagnostics and methods of use thereof

The invention provides reagents for detecting expression products of the basal marker genes described herein, i.e., cadherin3, matrix metalloproteinase 14, and cadherin EGF LAG seven-pass G-type receptor 2. Detection of these expression products identifies tumors in the basal tumor subclass. While not wishing to be bound by any theory, inventors suggest that breast carcinoma with basal cell like features has distinguishing biology that could be targeted in therapeutic development. Once therapeutics targeted at such tumors are identified (as described elsewhere herein), detection of these expression products allows identification of subjects likely to benefit from these therapeutics. In addition, since the invention has established a correlation between the expression of the three basal marker genes and the expression of cytokeratin17 and also established that cytokeratin 5/6 and/or cytokeratin 17 expression in breast tumors correlates with a poor outcome, detection of expression of the basal marker genes is useful in guiding therapeutic decisions in general. If it is known that a patient has a tumor that falls into the basal tumor subclass and thus has a poor prognosis, a more aggressive approach to therapy may be warranted than in tumors not falling within the basal subclass. For example, in patients where there is no evidence of disease in lymph nodes (node-negative patients), a decision must be made regarding whether to administer chemotherapy (adjuvant therapy) following surgical removal of the tumor. While some patients are likely to benefit from such treatment, it has significant side effects. Presently it is difficult or impossible to predict which patients would benefit. Knowing that a patient falls into a poor prognosis category may help in this decision. Of note, inventors showed that in node-negative patients cytokeratin 5/6 and/or 17 expression was a prognostic factor independent of tumor size and tumor grade. See Example 13 for further discussion of these issues and inventor's findings. Detecting expression of the basal marker genes of the present invention may provide information related to tumor progression. It is well known that as tumors progress, their phenotypic characteristics may change. The invention contemplates the possibility that breast tumors may evolve from luminal-like to basal-like (or vice versa), and that detection of expression products of the basal marker genes can be used to detect such progression.

It is well known in the art that some tumors respond to certain therapies while others do not. In general there is very little information that may be used to determine, prior to treatment, the likelihood that a specific tumor will respond to a given therapeutic agent. Many compounds have been tested for anti-tumor activity and appear to be effective in only a small percentage of tumors. Due to the current inability to predict which tumors will respond to a given agent, these compounds have not been developed into marketed therapeutics. This problem reflects the fact that current methods of classifying tumors are limited. However, the present invention offers the possibility of identifying tumor subgroups characterized by a significant likelihood of response to a given agent. Tumor sample archives containing tissue samples obtained from patients that have undergone therapy with various agents are available along with information regarding the results of such therapy. In general such archives consist of tumor samples embedded in paraffin blocks. These tumor samples can be analyzed for their expression of polypeptides encoded by the basal marker genes of the present invention. For example, immunohistochemistry can be performed using antibodies that bind to the polypeptides. Tumors belonging to the basal tumor subclass may then be identified on the basis of this information. It is then possible to correlate the expression of the basal marker genes with the response of the tumor to therapy, thereby identifying particular compounds that show a superior efficacy in tumors in this class as compared with their efficacy in tumors overall or in tumors not falling within the basal tumor subclass. Once such compounds are identified it will be possible to select patients whose tumors fall into the basal tumor subclass for additional clinical trials using these compounds. Such clinical trials, performed on a selected group of patients, are more likely to demonstrate efficacy. The reagents provided herein, therefore, are valuable both for retrospective and prospective trials.

In the case of prospective trials, detection of expression products of one or more of the marker genes may be used to stratify patients prior to their entry into the trial or while they are enrolled in the trial. In clinical research, stratification is the process or result of describing or separating a patient population into more homogeneous subpopulations according to specified criteria. Stratifying patients initially rather than after the trial is frequently preferred, e.g., by regulatory agencies such as the U.S. Food and Drug Administration that may be involved in the approval

process for a medication. In some cases stratification may be required by the study design. Various stratification criteria may be employed in conjunction with detection of expression of one or more basal marker genes. Commonly used criteria include age, family history, lymph node status, tumor size, tumor grade, etc. Other criteria including, but not limited to, tumor aggressiveness, prior therapy received by the patient, ER and/or PR positivity, Her2neu status, p53 status, various other biomarkers, etc., may also be used. Stratification is frequently useful in performing statistical analysis of the results of a trial. Ultimately, once compounds that exhibit superior efficacy against breast basal tumors are identified, reagents for detecting expression of the basal marker genes may be used to guide the selection of appropriate chemotherapeutic agent(s).

In summary, by providing reagents and methods for classifying tumors based on their expression of the basal marker genes, the present invention offers a means to individualize therapy. The invention further provides a means to identify a patient population that may benefit from potentially promising therapies that have been abandoned due to inability to identify the patients who would benefit from their use.

Information regarding the expression of the basal marker genes is useful even in the absence of specific information regarding their biological function or role in tumor development, progression, maintenance, or response to therapy. Although the reagents disclosed herein find particular application with respect to breast cancer, the invention also contemplates their use to provide diagnostic and/or prognostic information for other cancer types. As is well known in the art, mutations in a single gene (e.g., the *p53* gene) may play a role in the development of multiple cancer types. Thus it is contemplated that some or all of the basal marker genes described herein will be important both in breast cancer and in one or more other tumor types, particularly since basal cells are a feature of epithelia throughout the body.

In one aspect, the invention provides a method of classifying tumors by detecting the presence of one or more of the inventive gene products encoded by the cadherin3, matrix metalloproteinase 14, and cadherin EGF LAG seven-pass G-type receptor 2 genes. As is well known in the art, a polypeptide may be detected using a variety of techniques that employ an antibody that binds to the polypeptide. As described further below, these techniques include enzyme-linked immunosorbent

assay (ELISA), immunoblot, and immunohistochemistry. The invention encompasses the use of protein arrays, including antibody arrays, for detection of the polypeptide. The use of antibody arrays is described, for example, in Haab, B., *et al.*, "Protein microarrays for highly parallel detection and quantitation of specific proteins and antibodies in complex solutions", *Genome Biol.* 2001;2(2), 2001. Other types of  
5 protein arrays are known in the art.

In addition, in certain embodiments of the invention the polypeptides are detected using other modalities known in the art for the detection of polypeptides, such as aptamers (Aptamers, *Molecular Diagnosis*, Vol. 4, No. 4, 1999), reagents  
10 derived from combinatorial libraries for specific detection of proteins in complex mixtures, random peptide affinity reagents, etc. In general, any appropriate method for detecting a polypeptide may be used in conjunction with the present invention, although antibodies may represent a particularly appropriate modality.

The invention provides antibodies to the polypeptides encoded by the encoded  
15 by the cadherin3, matrix metalloproteinase 14, and cadherin EGF LAG seven-pass G-type receptor 2 genes. Example 10 describes the generation of polyclonal antibodies to these polypeptides. In general, antibodies (either monoclonal or polyclonal) may be generated by methods well known in the art and described, for example, in Harlow, E., Lane, E., and Harlow, E., (eds.) *Using Antibodies: A Laboratory Manual*, Cold  
20 Spring Harbor Laboratory Press, Cold Spring Harbor, 1998. Details and references for the production of antibodies based on an inventive polypeptide may also be found in U.S. Patent No. 6,008,337. Antibodies may include, but are not limited to, polyclonal, monoclonal, chimeric (e.g., "humanized"), and single chain antibodies, and Fab fragments, antibodies generated using phage display technology, etc. The  
25 invention encompasses "fully human" antibodies produced using the XenoMouse™ technology (AbGenix Corp., Fremont, CA) according to the techniques described in U.S. Patent No. 6,075,181.

The invention encompasses a number of uses for these antibodies. Detection of the basal marker polypeptides may be used to provide diagnostic information. As  
30 used herein the term "diagnostic information" includes, but is not limited to, any type of information that is useful in determining whether a patient has, or is at increased risk for developing, a disease or disorder; for providing a prognosis for a patient

having a disease or disorder; for classifying a disease or disorder; for monitoring a patient for recurrence of a disease or disorder; for selecting a preferred therapy; for predicting the likelihood of response to a therapy, etc. In certain embodiments of the invention, the antibodies are used for providing diagnostic information for cancer, particularly for breast cancer, but they may also be of use for providing diagnostic information for other diseases, e.g., other types of cancer.

In general, diagnostic assays in which the antibodies may be employed include methods that use the antibody to detect the polypeptide in a tissue sample, cell sample, body fluid sample (e.g., serum), cell extract, etc. Such methods typically involve the use of a labeled secondary antibody that recognizes the primary antibody (i.e., the antibody that binds to the polypeptide being detected). Depending upon the nature of the sample, appropriate methods include, but are not limited to, immunohistochemistry, radioimmunoassay, ELISA, immunoblotting, and FACS analysis. In the case where the polypeptide is to be detected in a tissue sample, e.g., a biopsy sample, immunohistochemistry is a particularly appropriate detection method. Techniques for obtaining tissue and cell samples and performing immunohistochemistry and FACS are well known in the art. Such techniques are routinely used, for example, to detect the ER in breast tumor tissue or cell samples. In general, such tests will include a negative control, which can involve applying the test to normal tissue so that the signal obtained thereby can be compared with the signal obtained from the sample being tested. In tests in which a secondary antibody is used to detect the antibody that binds to the polypeptide of interest, an appropriate negative control can involve performing the test on a portion of the sample with the omission of the antibody that binds to the polypeptide to be detected, i.e., with the omission of the primary antibody. Antibodies suitable for use as diagnostics generally exhibit high specificity for the target polypeptide and low background. In general, monoclonal antibodies are preferred for diagnostic purposes.

In general, the results of such a test can be presented in any of a variety of formats. The results can be presented in a qualitative fashion. For example, the test report may indicate only whether or not a particular polypeptide was detected, perhaps also with an indication of the limits of detection. The results may be presented in a semi-quantitative fashion. For example, various ranges may be defined, and the

ranges may be assigned a score (e.g., 1+ to 4+) that provides a certain degree of quantitative information. Such a score may reflect various factors, e.g., the number of cells in which the polypeptide is detected, the intensity of the signal (which may indicate the level of expression of the polypeptide), etc. The results may be presented

5 in a quantitative fashion, e.g., as a percentage of cells in which the polypeptide is detected, as a protein concentration, etc. As will be appreciated by one of ordinary skill in the art, the type of output provided by a test will vary depending upon the technical limitations of the test and the biological significance associated with detection of the polypeptide. For example, in the case of certain polypeptides a purely

10 qualitative output (e.g., whether or not the polypeptide is detected at a certain detection level) provides significant information. In other cases a more quantitative output (e.g., a ratio of the level of expression of the polypeptide in the sample being tested versus the normal level) is necessary.

Sequence analysis of two of the basal marker proteins, matrix

15 metalloproteinase 14 and cadherin EGF LAG seven-pass G-type receptor 2 indicates that they possess one or more transmembrane domains and an extracellular portion. Sequence analysis of the third basal marker protein, cadherin3, indicates that it also has an extracellular portion. The invention encompasses the recognition that since these proteins have an extracellular domain, the likelihood exists that a portion of

20 these proteins may therefore be present in serum (e.g., the portion may be cleaved by endogenous proteases and released into the bloodstream), enabling their detection through a blood test rather than requiring a biopsy specimen. Regardless of whether the proteins are present in serum, the likelihood that cadherin3, cadherin EGF LAG seven-pass G-type receptor 2, and matrix metalloproteinase 14 are membrane bound

25 makes them attractive candidates for antibody diagnostics. The proteins may be detected on cells that enter the bloodstream or in samples obtained from a tumor site (e.g., cell or tissue samples).

Measurement of prostate specific antigen (PSA) in serum using an immunoassay technique is widely used as a method for early detection of prostate

30 cancer and for monitoring recurrence or progression after therapy, etc. Methods and considerations in the use of this clinical marker are described, for example, in Chen DW, *et al.* Prostate-specific antigen as a marker for prostate cancer: A monoclonal



and polyclonal immunoassay compared. *Clin Chem*, 33:1916-1920, 1987; Oesterling JE, *et al.* Free, complexed and total serum prostate specific antigen: The establishment of appropriate reference ranges for their concentrations and ratios. *J Urol* 154:1090-1095, 1995; Hybritech Tandem®-MP Free PSA. Package insert. March 5 1998 and Hybritech Tandem® Total PSA. Package insert., Hybritech, Inc., San Diego, CA. One of ordinary skill in the art will readily be able to develop appropriate assays for polypeptides encoded by the basal marker genes described herein and to apply them to the detection of such polypeptides in serum. Such assays may be used as screening tests for cancer, to detect recurrence or progression of cancer, to monitor the 10 response of cancer to therapy, to classify and/or provide prognostic information regarding a tumor, etc.

In certain embodiments of the inventive methods a single antibody is used whereas in other embodiments of the invention multiple antibodies, directed either against the same or against different polypeptides can be used to increase the 15 sensitivity or specificity of the test or to provide more detailed information than that provided by a single antibody. Thus the invention encompasses the use of a battery of antibodies that bind to polypeptides encoded by the basal marker genes identified herein. Of course these antibodies can also be used in conjunction with antibodies against other polypeptides, including antibodies that bind to cytokeratin 5/6 or 17.

20 Various other techniques for detecting the basal marker polypeptides identified herein are within the scope of the invention. For example, a basal marker polypeptide may be detected using an assay for a biochemical activity of the polypeptide, e.g., an enzymatic activity. This type of assay may be especially convenient for tests on samples such as blood or other body fluids. Such an approach may be particularly 25 attractive in the case of matrix metalloproteinase 14. As described above, matrix metalloproteinases are involved in cleavage of various proteins in the extracellular matrix. The cleavage specificity of this protein may readily be determined, and an appropriate substrate prepared. (See, e.g., Turk, B., *et al.*, "Determination of protease cleavage site motifs using mixture-based oriented peptide libraries", *Nature* 30 *Biotechnology*, 19(7): 661-667, 2001, which discusses cleavage site motifs for various metalloproteases including MMP14, referred to as MT1-MMP therein.) Cleavage of this substrate may then be detected. In certain embodiments of the invention the

substrate includes a fluorescent moiety for convenient detection. The invention contemplates use of fluorescent resonance energy transfer (FRET) assays to detect matrix metalloproteinase 14 (see <http://www.aurorabio.com>).

Although in many cases detection of polypeptides using antibodies represents the most convenient means of determining whether a gene is expressed (or overexpressed) in a particular sample, the invention also encompasses the use of polynucleotides for this purpose. Microarray analysis is but one means by which polynucleotides can be used to detect or measure gene expression. Expression of a gene can also be measured by a variety of techniques that make use of a polynucleotide corresponding to part or all of the gene rather than an antibody that binds to a polypeptide encoded by the gene. Appropriate techniques include, but are not limited to, *in situ* hybridization, Northern blot, and various nucleic acid amplification techniques such as PCR, quantitative PCR, and the ligase chain reaction.

One detection method involves performing quantitative PCR on a diagnostic sample using a set of oligonucleotide primers designed to amplify the genes in one or more of the inventive gene sets of gene subsets. (Considerations for primer design are well known in the art and are described, for example, in Newton, et al. (eds.) *PCR: Essential data Series*, John Wiley & Sons; *PCR Primer: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1995; White, et al. (eds.) *PCR Protocols: Current methods and Applications*, Methods in Molecular Biology, The Humana Press, Totowa, NJ, 1993. In addition, a variety of computer programs known in the art may be used to select appropriate primers.)

According to one embodiment of this method the diagnostic sample is distributed into multiple vessels, e.g., multiple wells of a 396 well microtiter plate. A pair of primers designed to amplify a portion of a gene in one of the inventive gene sets or subsets is added to each well, and PCR amplification is performed. The resulting product can then be detected using any of a number of methods known in the art depending upon the particular method of performing quantitative PCR that is employed. Primers sufficient for amplification of genes that allow quantitation of different cell types within the sample may also be included in the set of primers.

The invention also encompasses the detection of mutations within any of the basal marker genes or within a regulatory region of a basal marker gene. Such mutations may include, but are not limited to, deletions, additions, substitutions, and amplification of regions of genomic DNA that include all or part of a gene. Methods for detecting such mutations are well known in the art. Such mutations may result in overexpression or inappropriate expression of the gene. Detection of mutations can be used, for example, to predict the likelihood that an individual will develop a condition associated with the mutation.

Another aspect of the invention comprises a kit to test for the presence of any of the inventive polynucleotides or polypeptides, e.g., in a tissue sample or in a body fluid. The kit can comprise, for example, an antibody for detection of a polypeptide or a probe for detection of a polynucleotide. In addition, the kit can comprise a reference or control sample, instructions for processing samples, performing the test and interpreting the results, buffers and other reagents necessary for performing the test. In certain embodiments of the invention the kit comprises a panel of antibodies. In certain embodiments of the invention the kit comprises pairs of primers for detecting expression of one or more of the basal marker genes. In certain embodiments of the invention the kit comprises a cDNA or oligonucleotide array for detecting expression of one or more of the basal marker genes.

20

#### D. Therapeutics

The invention encompasses the use of the basal marker genes and their expression products as targets for the development of therapeutics. The invention specifically encompasses antagonists to the basal marker genes and their expression products. Such antagonists (which include, but are not limited to, antibodies, small molecules, antisense nucleic acids) may be produced or identified using any of a variety of methods known in the art. For example, a purified polypeptide or fragment thereof may be used to raise antibodies or to screen libraries of compounds to identify those that specifically bind to the polypeptide. The likelihood that cadherin3, cadherin EGF LAG seven-pass G-type receptor 2, and matrix metalloproteinase 14 are membrane bound makes them attractive candidates for antibody therapeutics.

30

Preferably antibodies suitable for use as therapeutics exhibit high specificity for the target polypeptide and low background binding to other polypeptides. In general, monoclonal antibodies are preferred for therapeutic purposes. In the case of breast cancer, antibodies against the *HER2/neu/ErbB2* polypeptide (a polypeptide  
5 homologous to the epidermal growth factor receptor) represent a paradigm in terms of the development of therapeutic antibodies. The *HER2/neu/ErbB2* gene is overexpressed in approximately 25 to 30 percent of metastatic breast tumors, and an antibody against the *HER2/neu/ErbB2* polypeptide, Herceptin® (Trastuzumab) is approved for the treatment of certain patients with metastatic breast cancer,  
10 confirming the utility of therapeutic antibodies directed against polypeptides that are specifically overexpressed in particular tumors subsets. Proteins that are expressed on the cell surface, such as the basal marker proteins described herein, represent preferred targets for the development of therapeutic agents, particularly therapeutic antibodies. The presence of these proteins on the cell surface can be confirmed using  
15 immunohistochemistry.

Antibodies directed against a polypeptide expressed by a cell may have a number of mechanisms of action. In certain instances, e.g., in the case of a polypeptide that exerts a growth stimulatory effect on a cell, antibodies may directly antagonize the effect of the polypeptide and thereby arrest tumor progression, trigger  
20 apoptosis, etc. While not wishing to be bound by any theory, it may be particularly likely that certain genes that are overexpressed in tumors having a poor prognosis (e.g., genes in the basal gene subsets) encode polypeptides that have a growth stimulatory effect on tumor cells or facilitate the growth of such cells in some other way, e.g., by enhancing angiogenesis, by allowing cells to overcome normal growth  
25 regulatory mechanisms, or by blocking mechanisms that would normally lead to elimination of mutated or otherwise abnormal cells.

In certain embodiments of the invention the antibody may serve to target a toxic moiety to the cell. Thus the invention encompasses the use of antibodies that have been conjugated with a cytotoxic agent, e.g., a toxin such as ricin or diphtheria  
30 toxin, a radioactive moiety, etc. Such antibodies can be used to direct the cytotoxic agent specifically to cells that express the inventive polypeptide, particularly in the case of a polypeptide that is expressed on the cell surface.

Although certain antagonists may function through direct interaction with a polypeptide, e.g., by inhibiting its activity, others may function by affecting expression of the polypeptide. Reduction in expression of an endogenously produced polypeptide may be achieved by the administration of antisense nucleic acids (e.g.,  
5 oligonucleotides, RNA, DNA, most typically oligonucleotides that have been modified to improve stability or targeting) or peptide nucleic acids comprising sequences complementary to those of the mRNA that encodes the polypeptide. Antisense technology and its applications are described in Phillips, M.I. (ed.) *Antisense Technology*, Methods Enzymol., Volumes 313 and 314, Academic Press,  
10 San Diego, 2000, and references mentioned therein. Ribozymes (catalytic RNA molecules that are capable of cleaving other RNA molecules) represent another approach to reducing gene expression. Such ribozymes can be designed to cleave specific mRNAs corresponding to a gene of interest. Their use is described in U.S. Patent No. 5,972,621, and references therein. The invention encompasses the delivery  
15 of antisense and/or ribozyme molecules via a gene therapy approach in which vectors or cells expressing the antisense molecules are administered to an individual.

It may also be desirable to increase the expression of a gene in an inventive gene subset or to increase the activity of the corresponding polypeptide. For example, in the case of genes that are overexpressed in tumors having a good prognosis, e.g.,  
20 certain genes in the luminal subset, it may be desirable to increase the expression of such genes or the activity of the corresponding polypeptides in tumors that fail to express these genes.

Small molecule modulators (e.g., inhibitors or activators) of gene expression are also within the scope of the invention and may be detected by screening libraries  
25 of compounds using, for example, cell lines that express the polypeptide or a version of the polypeptide that has been modified to include a readily detectable moiety. Methods for identifying compounds capable of modulating gene expression are described, for example, in U.S. Patent No. 5,976,793. The screening methods described therein are particularly appropriate for identifying compounds that do not  
30 naturally occur within cells and that modulate the expression of genes of interest whose expression is associated with a defined physiological or pathological effect within a multicellular organism.

More generally, the invention encompasses compounds that modulate the activity of a basal marker gene of the present invention. Methods of screening for such interacting compounds are well known in the art and depend, to a certain degree, on the particular properties and activities of the polypeptide encoded by the gene.

5 Representative examples of such screening methods may be found, for example, in U.S. Patent No. 5,985,829, U.S. Patent No. 5,726,025, U.S. Patent No. 5,972,621, and U.S. Patent No. 6,015,692. The skilled practitioner will readily be able to modify and adapt these methods as appropriate for a given polypeptide. Thus the invention encompasses methods of screening for molecules that modulate the activity of a  
10 polypeptide encoded by a basal marker gene.

The invention also encompasses the use of polynucleotide sequences corresponding to basal marker genes, or portions thereof, as DNA vaccines. Such vaccines comprise polynucleotide sequences, typically inserted into vectors, that direct the expression of an antigenic polypeptide within the body of the individual  
15 being immunized. Details regarding the development of vaccines, including DNA vaccines for various forms of cancer may be found, for example, in Brinckerhoff L.H., Thompson L.W., Slingluff C.L., Jr., *Melanoma Vaccines*, *Curr Opin Oncol*, 12(2):163-73, 2000 and in Stevenson, F.K., *DNA vaccines against cancer: from genes to therapy*, *Ann. Oncol.*, 10(12): 1413-8, 1999 and references therein. The  
20 polypeptides, or fragments thereof, that are encoded by genes in the inventive gene subsets may also find use as cancer vaccines. Such vaccines may be used for the prevention and/or treatment of cancer.

The invention includes pharmaceutical compositions comprising the inventive antibodies, or small molecule inhibitors, agonists, or antagonists described above. In  
25 general, a pharmaceutical composition will include an active agent in addition to one or more inactive agents such as a sterile, biocompatible carrier including, but not limited to, sterile water, saline, buffered saline, or dextrose solution. The pharmaceutical compositions may be administered either alone or in combination with other therapeutic agents including other chemotherapeutic agents, hormones, vaccines,  
30 and/or radiation therapy. By "in combination with", it is not intended to imply that the agents must be administered at the same time or formulated for delivery together, although these methods of delivery are within the scope of the invention. In general,

each agent will be administered at a dose and on a time schedule determined for that agent. Additionally, the invention encompasses the delivery of the inventive pharmaceutical compositions in combination with agents that may improve their bioavailability, reduce or modify their metabolism, inhibit their excretion, or modify  
5 their distribution within the body. The invention encompasses treating cancer, particularly breast cancer, by administering the pharmaceutical compositions of the invention. Although the pharmaceutical compositions of the present invention can be used for treatment of any subject (e.g., any animal) in need thereof, they are most preferably used in the treatment of humans.

10 The pharmaceutical compositions of this invention can be administered to humans and other animals by a variety of routes including oral, intravenous, intramuscular, intraarterial, subcutaneous, intraventricular, transdermal, rectal intravaginal, intraperitoneal, topical (as by powders, ointments, or drops), bucal, or as an oral or nasal spray or aerosol. In general the most appropriate route of  
15 administration will depend upon a variety of factors including the nature of the compound (e.g., its stability in the environment of the gastrointestinal tract), the condition of the patient (e.g., whether the patient is able to tolerate oral administration), etc. At present the intravenous route is most commonly used to deliver therapeutic antibodies and nucleic acids. However, the invention encompasses  
20 the delivery of the inventive pharmaceutical composition by any appropriate route taking into consideration likely advances in the sciences of drug delivery.

General considerations in the formulation and manufacture of pharmaceutical agents may be found, for example, in *Remington's Pharmaceutical Sciences*, 19<sup>th</sup> ed., Mack Publishing Co., Easton, PA, 1995. It will be appreciated that certain of the  
25 compounds of the present invention can exist in free form for treatment, or, where appropriate, in salt form, as discussed in more detail below. Compounds to be utilized in the pharmaceutical compositions include compounds existing in free form or pharmaceutically acceptable derivatives thereof, as defined herein, such as pharmaceutically acceptable salts, esters, salts of such esters, or any other adduct or  
30 derivative, which upon administration to a patient in need, is capable of providing, directly or indirectly, a compound as otherwise described herein, or a metabolite or residue thereof, e.g., a prodrug. Thus, as used herein, the term "pharmaceutically

acceptable salt" refers to those salts which are, within the scope of sound medical judgment, suitable for use in contact with the tissues of humans and lower animals without undue toxicity, irritation, allergic response and the like, and are commensurate with a reasonable benefit/risk ratio. Pharmaceutically acceptable salts are well known in the art. For example, S. M. Berge, et al. describe pharmaceutically acceptable salts in detail in *J. Pharmaceutical Sciences*, 66: 1-19 (1977), incorporated herein by reference. The salts can be prepared in situ during the final isolation and purification of the compounds of the invention, or separately by reacting the free base function with a suitable organic acid. Examples of pharmaceutically acceptable, nontoxic acid addition salts are salts of an amino group formed with inorganic acids such as hydrochloric acid, hydrobromic acid, phosphoric acid, sulfuric acid and perchloric acid or with organic acids such as acetic acid, oxalic acid, maleic acid, tartaric acid, citric acid, succinic acid, or malonic acid or by using other methods used in the art such as ion exchange. Other pharmaceutically acceptable salts include adipate, alginate, ascorbate, aspartate, benzenesulfonate, benzoate, bisulfate, borate, butyrate, camphorate, camphorsulfonate, citrate, cyclopentanepropionate, digluconate, dodecylsulfate, ethanesulfonate, formate, fumarate, glucoheptonate, glycerophosphate, gluconate, hemisulfate, heptanoate, hexanoate, hydroiodide, 2-hydroxy-ethanesulfonate, lactobionate, lactate, laurate, lauryl sulfate, malate, maleate, malonate, methanesulfonate, 2-naphthalenesulfonate, nicotinate, nitrate, oleate, oxalate, palmitate, pamoate, pectinate, persulfate, 3-phenylpropionate, phosphate, picrate, pivalate, propionate, stearate, succinate, sulfate, tartrate, thiocyanate, p-toluenesulfonate, undecanoate, valerate salts, and the like. Representative alkali or alkaline earth metal salts include sodium, lithium, potassium, calcium, magnesium, and the like. Further pharmaceutically acceptable salts include, when appropriate, nontoxic ammonium, quaternary ammonium, and amine cations formed using counterions such as halide, hydroxide, carboxylate, sulfate, phosphate, nitrate, lower alkyl sulfonate and aryl sulfonate.

Additionally, as used herein, the term "pharmaceutically acceptable ester" refers to esters that hydrolyze in vivo and include those that break down readily in the human body to leave the parent compound or a salt thereof. Suitable ester groups include, for example, those derived from pharmaceutically acceptable aliphatic



carboxylic acids, particularly alkanolic, alkenolic, cycloalkanoic and alkanedioic acids, in which each alkyl or alkenyl moiety advantageously has not more than 6 carbon atoms. Examples of particular suitable esters includes formates, acetates, propionates, butyrates, acrylates and ethylsuccinates.

5 Furthermore, the term "pharmaceutically acceptable prodrugs" as used herein refers to those prodrugs of the compounds of the present invention that are, within the scope of sound medical judgment, suitable for use in contact with the tissues of humans and lower animals without undue toxicity, irritation, allergic response, and the like, commensurate with a reasonable benefit/risk ratio, and effective for their  
10 intended use, as well as the zwitterionic forms, where possible, of the compounds of the invention. The term "prodrug" refers to compounds that are rapidly transformed *in vivo* to yield a particular active compound, for example by hydrolysis in blood. A thorough discussion is provided in T. Higuchi and V. Stella, "Pro-drugs as Novel Delivery Systems", Vol. 14 of the A.C.S. Symposium Series, and in Edward B.  
15 Roche, ed., *Bioreversible Carriers in Drug Design*, American Pharmaceutical Association and Pergamon Press, 1987, both of which are incorporated herein by reference.

As mentioned above, the pharmaceutical compositions of the present invention additionally comprise a pharmaceutically acceptable carrier, which, as used herein,  
20 means a non-toxic, inert solid, semi-solid or liquid filler, diluent, encapsulating material, or formulation auxiliary of any type. Some examples of materials which can serve as pharmaceutically acceptable carriers are sugars such as lactose, glucose and sucrose; starches such as corn starch and potato starch; cellulose and its derivatives such as sodium carboxymethyl cellulose, ethyl cellulose and cellulose acetate;  
25 powdered tragacanth; malt; gelatin; talc; excipients such as cocoa butter and suppository waxes; oils such as peanut oil, cottonseed oil; safflower oil; sesame oil; olive oil; corn oil and soybean oil; glycols; such a propylene glycol; esters such as ethyl oleate and ethyl laurate; agar; buffering agents such as magnesium hydroxide and aluminum hydroxide; alginic acid; water; isotonic saline; Ringer's solution; ethyl  
30 alcohol, and phosphate buffer solutions, dextrose solutions, as well as other non-toxic compatible lubricants such as sodium lauryl sulfate and magnesium stearate, as well as coloring agents, releasing agents, coating agents, sweetening, flavoring and

perfuming agents, preservatives and antioxidants can also be present in the composition, according to the judgment of the formulator.

Liquid dosage forms for oral administration include pharmaceutically acceptable emulsions, microemulsions, solutions, suspensions, syrups and elixirs. In addition to the active compounds, the liquid dosage forms may contain inert diluents commonly used in the art such as, for example, water or other solvents, solubilizing agents and emulsifiers such as ethyl alcohol, isopropyl alcohol, ethyl carbonate, ethyl acetate, benzyl alcohol, benzyl benzoate, propylene glycol, 1,3-butylene glycol, dimethylformamide, oils (in particular, cottonseed, groundnut, corn, germ, olive, castor, and sesame oils), glycerol, tetrahydrofurfuryl alcohol, polyethylene glycols and fatty acid esters of sorbitan, and mixtures thereof. Besides inert diluents, the oral compositions can also include adjuvants such as wetting agents, emulsifying and suspending agents, sweetening, flavoring, and perfuming agents.

Injectable preparations, for example, sterile injectable aqueous or oleaginous suspensions may be formulated according to the known art using suitable dispersing or wetting agents and suspending agents. The sterile injectable preparation may also be a sterile injectable solution, suspension or emulsion in a nontoxic parenterally acceptable diluent or solvent, for example, as a solution in 1,3-butanediol. Among the acceptable vehicles and solvents that may be employed are water, Ringer's solution, U.S.P. and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose any bland fixed oil can be employed including synthetic mono- or diglycerides. In addition, fatty acids such as oleic acid are used in the preparation of injectables.

The injectable formulations can be sterilized, for example, by filtration through a bacterial-retaining filter, or by incorporating sterilizing agents in the form of sterile solid compositions which can be dissolved or dispersed in sterile water or other sterile injectable medium prior to use.

In order to prolong the effect of a drug, it is often desirable to slow the absorption of the drug from subcutaneous or intramuscular injection. This may be accomplished by the use of a liquid suspension of crystalline or amorphous material with poor water solubility. The rate of absorption of the drug then depends upon its rate of dissolution which, in turn, may depend upon crystal size and crystalline form.

Alternatively, delayed absorption of a parenterally administered drug form is accomplished by dissolving or suspending the drug in an oil vehicle. Injectable depot forms are made by forming microencapsulated matrices of the drug in biodegradable polymers such as polylactide-polyglycolide. Depending upon the ratio of drug to polymer and the nature of the particular polymer employed, the rate of drug release can be controlled. Examples of other biodegradable polymers include poly(orthoesters) and poly(anhydrides). Depot injectable formulations are also prepared by entrapping the drug in liposomes or microemulsions which are compatible with body tissues.

- 10       Compositions for rectal or vaginal administration are preferably suppositories which can be prepared by mixing the compounds of this invention with suitable non-irritating excipients or carriers such as cocoa butter, polyethylene glycol or a suppository wax which are solid at ambient temperature but liquid at body temperature and therefore melt in the rectum or vaginal cavity and release the active compound.

- 15       Solid dosage forms for oral administration include capsules, tablets, pills, powders, and granules. In such solid dosage forms, the active compound is mixed with at least one inert, pharmaceutically acceptable excipient or carrier such as sodium citrate or dicalcium phosphate and/or a) fillers or extenders such as starches, lactose, sucrose, glucose, mannitol, and silicic acid, b) binders such as, for example, carboxymethylcellulose, alginates, gelatin, polyvinylpyrrolidinone, sucrose, and acacia, c) humectants such as glycerol, d) disintegrating agents such as agar-agar, calcium carbonate, potato or tapioca starch, alginic acid, certain silicates, and sodium carbonate, e) solution retarding agents such as paraffin, f) absorption accelerators such as quaternary ammonium compounds, g) wetting agents such as, for example, cetyl alcohol and glycerol monostearate, h) absorbents such as kaolin and bentonite clay, and i) lubricants such as talc, calcium stearate, magnesium stearate, solid polyethylene glycols, sodium lauryl sulfate, and mixtures thereof. In the case of capsules, tablets and pills, the dosage form may also comprise buffering agents.

- 20       Solid compositions of a similar type may also be employed as fillers in soft and hard-filled gelatin capsules using such excipients as lactose or milk sugar as well as high molecular weight polyethylene glycols and the like. The solid dosage forms of

tablets, dragees, capsules, pills, and granules can be prepared with coatings and shells such as enteric coatings and other coatings well known in the pharmaceutical formulating art. They may optionally contain opacifying agents and can also be of a composition that they release the active ingredient(s) only, or preferentially, in a certain part of the intestinal tract, optionally, in a delayed manner. Examples of embedding compositions that can be used include polymeric substances and waxes. Solid compositions of a similar type may also be employed as fillers in soft and hard-filled gelatin capsules using such excipients as lactose or milk sugar as well as high molecular weight polyethylene glycols and the like.

10       The active compounds can also be in micro-encapsulated form with one or more excipients as noted above. The solid dosage forms of tablets, dragees, capsules, pills, and granules can be prepared with coatings and shells such as enteric coatings, release controlling coatings, and other coatings well known in the pharmaceutical formulating art. In such solid dosage forms the active compound may be admixed  
15       with at least one inert diluent such as sucrose, lactose or starch. Such dosage forms may also comprise, as is normal practice, additional substances other than inert diluents, e.g., tableting lubricants and other tableting aids such as magnesium stearate and microcrystalline cellulose. In the case of capsules, tablets and pills, the dosage forms may also comprise buffering agents. They may optionally contain opacifying  
20       agents and can also be of a composition that they release the active ingredient(s) only, or preferentially, in a certain part of the intestinal tract, optionally, in a delayed manner. Examples of embedding compositions that can be used include polymeric substances and waxes.

      Dosage forms for topical or transdermal administration of a compound of this  
25       invention include ointments, pastes, creams, lotions, gels, powders, solutions, sprays, inhalants or patches. The active component is admixed under sterile conditions with a pharmaceutically acceptable carrier and any needed preservatives or buffers as may be required. Ophthalmic formulation and ear drops are also contemplated as being within the scope of this invention. The ointments, pastes, creams and gels may contain, in  
30       addition to an active compound of this invention, excipients such as animal and vegetable fats, oils, waxes, paraffins, starch, tragacanth, cellulose derivatives, polyethylene glycols, silicones, bentonites, silicic acid, talc and zinc oxide, or

mixtures thereof. Powders and sprays can contain, in addition to the compounds of this invention, excipients such as lactose, talc, silicic acid, aluminum hydroxide, calcium silicates and polyamide powder, or mixtures of these substances. Sprays can additionally contain propellants known in the art such as chlorofluorohydrocarbons.

5 Transdermal patches have the added advantage of providing controlled delivery of a compound to the body. Such dosage forms can be made by dissolving or dispensing the compound in the proper medium. Absorption enhancers can also be used to increase the flux of the compound across the skin. The rate can be controlled by either providing a rate controlling membrane or by dispersing the compound in a  
10 polymer matrix or gel.

In yet another aspect, the present invention also provides a pharmaceutical pack or kit comprising one or more containers filled with one or more of the ingredients of the pharmaceutical compositions of the invention, and in certain embodiments, includes an additional approved therapeutic agent for use as a  
15 combination therapy. Optionally associated with such container(s) can be a notice in the form prescribed by a governmental agency regulating the manufacture, use or sale of pharmaceutical products, which notice reflects approval by the agency of manufacture, use or sale for human administration. Instructions for use of the compound(s) may also be included.

20 According to the methods of treatment of the present invention, cancer, particularly breast cancer, is treated or prevented in a patient such as a human or other mammal by administering to the patient a therapeutically effective amount of a compound of the invention, in such amounts and for such time as is necessary to achieve the desired result. By a "therapeutically effective amount" of a compound of  
25 the invention is meant a sufficient amount of the compound to treat (e.g. to ameliorate the symptoms of, delay progression of, prevent recurrence of, cure, etc.) cancer, particularly breast cancer, at a reasonable benefit/risk ratio, which involves a balancing of the efficacy and toxicity of the compound. In general, therapeutic efficacy and toxicity may be determined by standard pharmacological procedures in  
30 cell cultures or with experimental animals, e.g., by calculating the  $ED_{50}$  (the dose that is therapeutically effective in 50% of the treated subjects) and the  $LD_{50}$  (the dose that is lethal to 50% of treated subjects). The  $ED_{50}/LD_{50}$  represents the therapeutic index

of the compound. Although in general drugs having a large therapeutic index are preferred, as is well known in the art, a smaller therapeutic index may be acceptable in the case of a serious disease, particularly in the absence of alternative therapeutic options. Ultimate selection of an appropriate range of doses for administration to  
5 humans is determined in the course of clinical trials.

It will be understood that the total daily usage of the compounds and compositions of the present invention for any given patient will be decided by the attending physician within the scope of sound medical judgment. The specific therapeutically effective dose level for any particular patient will depend upon a  
10 variety of factors including the disorder being treated and the severity of the disorder; the activity of the specific compound employed; the specific composition employed; the age, body weight, general health, sex and diet of the patient; the time of administration, route of administration, and rate of excretion of the specific compound employed; the duration of the treatment; drugs used in combination or coincidental  
15 with the specific compound employed; and like factors well known in the medical arts.

The total daily dose of the compounds of this invention administered to a human or other mammal in single or in divided doses can be in amounts, for example, from 0.01 to 50 mg/kg body weight or more usually from 0.1 to 25 mg/kg body  
20 weight. Single dose compositions may contain such amounts or submultiples thereof to make up the daily dose. In general, treatment regimens according to the present invention comprise administration to a patient in need of such treatment from about 0.1  $\mu$ g to about 2000 mg of the compound(s) of the invention per day in single or multiple doses.

25

## EXAMPLES

Note: A numbered list of references appears following the Examples, all of which are incorporated herein by reference.

5

## Example 1

## Preparation of Microarrays Containing 8498 Human cDNAs

The human cDNA clones used in this study were obtained from Research Genetics (Huntsville AB, USA) as bacterial colonies in 96-well microtiter plates. The clones  
10 were chosen from a set of 15,000 cDNA clones that corresponded to the Research Genetics Human Gene Filters sets GF200-202 (<http://www.resgen.com/>). These clones form part of a set of clones assembled by the I.M.A.G.E. consortium (Lennon, G.G., Auffray, C., Polymeropoulos, M., Soares, M.B. The I.M.A.G.E. Consortium: An Integrated Molecular Analysis of Genomes and their Expression. Genomics  
15 33:151-152,1996) and are identified by I.M.A.G.E. clone ID numbers. All clones printed on these arrays were sequence validated as part of a product offered at Research Genetics, Inc. We estimate that greater than 97% of the clones on the array are correctly identified.

A detailed protocol for the production of the cDNA microarrays used in this  
20 study is available at <http://cmgm.stanford.edu/pbrown/protocols.html> and is reproduced below with insubstantial changes. As described below, the protocol includes steps of (1) cleaning the glass slides onto which the DNAs (e.g., products of PCR reactions) are to be spotted; (2) spotting the DNAs onto the glass slides with an arrayer; (3) Post processing to prepare arrays containing spotted DNAs for  
25 hybridization. All procedures are done at room temperature and with double distilled water unless otherwise stated. Unless otherwise stated, in this Example and the following Examples, reagents are prepared according to protocols available in Maniatis, T., Sambrook, J. and Fritsch, E., *Molecular Cloning: A Laboratory Manual* (3 Volume Set), Cold Spring Harbor Laboratory Press, Cold Spring Harbor, 1989.

30

Cleaning Slides

Use 30 slide racks in 350mL glass dishes

1. Dissolve 50g of NaOH pellets into 150ml ddH<sub>2</sub>O
2. Add 200ml of 95% EtOH, stir until completely mixed
3. If solution remains cloudy, add ddH<sub>2</sub>O until clear
4. Pour solution into glass slide box.
- 5 5. Drop in 30 slides in a metal rack. (Gold Seal slides, Cat. 3010)
6. Let soak on an orbital shaker for at least two hours
7. Rinse slides by transferring rack to slide dish filled with ddH<sub>2</sub>O
8. Repeat ddH<sub>2</sub>O rinses x3. It's important to remove all traces of the NaOH-ethanol.
- 10 9. Prepare Poly-l-lysine solution: Use Sigma Poly-l-lysine solution. Cat. No. 8920
10. Add 70mL poly-l-lysine to 280ml of water
11. Transfer slides to poly-l-lysine solution and let soak for 1 hour.
12. Remove excess liquid from slides by spinning the rack of slides on microtiter
- 15 plate carriers at 500rpm.
13. Dry slides at 40 degrees C for 5 minutes in a vacuum oven.
14. Store slides in a closed box for at least two weeks prior to use.
15. Before printing arrays, check a sample slide to make sure it's hydrophobic
- 20 (water should bead off it) but the lysine coating is not turning opaque.

#### Arraying

1. Transfer PCR reactions to 96-well V-bottom tissue culture plates (Costar).  
Add 1/10 vol. 3M sodium acetate (pH 5.2) and equal volume isopropanol. Store at -20
- 25 C for a few hours.
2. Centrifuge in Sorvall at 3500 RPM for 45 min. Rinse with 70% EtOH, centrifuge again and dry.
2. Resuspend DNA in 12ul 3X SSC for a few hours and transfer to flexible U-bottom printing plates.
- 30 4. Spot DNA onto poly-l-lysine slides with an arrayer.



Post processing

1. Rehydrate arrays by suspending slides over a dish of warm ddH<sub>2</sub>O. (~1 minute)
2. Snap-dry each array (DNA side up) on a 100C hot plate for 3 seconds.
- 5 3. UV cross-link DNA to the glass by using a Stratalinker set for 60 milliJoules
4. Dissolve 5g of succinic anhydride (Aldrich) in 315mL of n-methyl-pyrrolidinone.
5. To this, add 35mL of 0.2M NaBorate pH 8.0 (made by dissolving boric acid in water and adjusting the pH with NaOH), and stir until dissolved.
- 10 6. Soak arrays in this solution for 15 minutes with shaking.
7. Transfer arrays to 95C water bath for 2 minutes
8. Quickly transfer arrays to 95% EtOH for 1 minute.
9. Remove excess liquid from slides by spinning the rack of slides on microtiter plate
- 15 carriers at 500rpm.
10. Arrays can be used immediately.

Reagent Suppliers

- 20 Microscope slides Goldseal brand. (Cat. 3010)
- Poly-l-lysine solution Sigma product number P8920
- Succinic Anhydride Aldrich product number 23,969-0
- N-Methyl-Pyrrolidinone Aldrich product number 32,863-4

- 25 Microarrays were prepared according to the above protocol using the 8498 cDNA clones described above. All microarrays used in the experiments described herein were from a single print run batch of microarrays.

## Example 2

30

Cell Lines, Breast Tissue, and Breast Tumor Samples for Microarray Analysis and  
Preparation of mRNA Samples

### Common Reference Sample

Each of the 84 experimental samples tested here was analyzed by a comparative hybridization, using a common reference RNA pool as a standard; this reference sample was composed of equal mixtures of mRNA isolated from 11 established cell lines derived from human tissue (MCF7, Hs578T, OVCAR3, HepG2, NTERA2, MOLT4, RPMI-8226, NB4+ATRA, UACC-62, SW872, and Colo205; also see Table 3 for more details). The 11 cell lines were all grown to 70-90% confluence in RPMI medium, containing 10% Fetal Calf Serum and Penicillin/Streptomycin. The cells were harvested either by scraping or centrifugation, quickly resuspended in RNA lysis buffer and mRNA prepared using the FastTrack™ 2.0 mRNA Isolation Kit (Invitrogen, Carlsbad, CA) according to the manufacturer's instructions. In each case, multiple individual mRNA preparations were collected for each cell line, which were then pooled together and analyzed via Northern analysis before final mixing to ensure the quality of the input mRNAs (e.g., to confirm that the mRNA exhibited a size distribution indicating that it was substantially nondegraded). The 11 mRNA samples were then mixed together in equal amounts, aliquoted in 10mM Tris (7.4), and stored at -80 C until use (2 micrograms of common reference sample was used per microarray hybridization and was always labeled using Cy3).

### Normal Breast Tissue

Three samples of normal breast tissue were analyzed. Two of the samples were obtained from Clontech (Palo Alto, CA) and were pools of six (Normal1) or two (Normal2) whole normal breasts. The third sample (Normal3) was obtained from a single individual.

### Breast Tumor Samples

The 40 individual breast tumor samples were collected at either Stanford University in Stanford CA, USA, or in the Haukeland University Hospital in Bergen, Norway. Twenty of the forty breast tumors were sampled twice as part of a larger Norwegian study on locally advanced breast cancers (T3/T4 and/or N2 tumors) and have been described previously (Aas, T., et al., *Nat. Med.*, 2, 811-814, 1996, the

contents of which are incorporated herein by reference) ; these patients underwent an open surgical biopsy before treatment with doxorubicin monotherapy (range 12-23 weeks), followed by the definitive surgical resection of the remaining tumor after therapy, and were evaluated for clinical responses according to UICC criteria (Hayward, J., et al., *Br. J. Cancer*, 35, 292-298, 1977). In addition to the 20 pairs, there were 8 additional "before" specimens from Norway and 10 tumor specimens from Stanford (all Stanford tumors tested had a diameter of 3 cm or larger). Finally, 2 of the 10 Stanford tumor specimens assayed were also paired with a lymph node metastasis from the same patient.

10

#### mRNA Isolation from Breast Tumor and Tissue Samples

Following their excision, breast tumor samples were rapidly frozen in liquid N<sub>2</sub> and then stored at -80 C until use. mRNA was isolated from breast tumors and normal breast tissue using the Trizol Reagent (Gibco-BRL) and Invitrogen FastTrack 2.0 Kit (all Stanford samples, and see <http://genome-www.stanford.edu/sbcmf/web.shtml> for the detailed protocol) or using the Trizol Reagent followed by Dynal bead separation for the mRNA purification step (all Norway tissue samples). Briefly, frozen tumor samples were cut into small pieces and immediately placed into 12 ml of Trizol Reagent. Each tumor sample in Trizol was homogenized using a PowerGen 125 Tissue Homogenizer (Fisher Scientific), and total RNA was isolated according to the Trizol reagent manufacturer's protocol. Tumor mRNA was isolated according to the manufacturer's protocols using the FastTrack 2.0 Kit (Invitrogen) or Dynal beads.

25

#### Example 3

##### Characterization of Breast Tissue and Tumor Samples

For all but two of the tumor specimens (i.e. New York 1 and New York 2), the mutational status of the *TP53* gene was determined using published methods (Aas, T., et al.).

30

A single pathologist (applicant Matt van de Rijn) reviewed hematoxylin and eosin (H&E) sections of each tumor, including all before and after pairs, and made a

histological evaluation of each while blinded to the source. Tumors were graded using a modified version of the Bloom-Richardson method (Robbins, P., et al., *Hum Pathol*, 26, 873-879, 1995). These data are displayed in Table 4. Representative H&E sections of each tumor are posted on Applicants' website at [http://genome-](http://genome-www.stanford.edu/molecularportraits/)  
5 [www.stanford.edu/molecularportraits/](http://genome-www.stanford.edu/molecularportraits/).

Immunohistochemistry was performed as described previously (Perou, C., et al., 1999; Bindl, J. and Warnke, R., *Am J Clin Pathol*, 85, 490-493, 1986, and Natkunam, Y., et al., *Am. J. Path.*, 156(1), 2000). The antibodies used included the commercially available monoclonal antibodies CAM5.2 (specific for keratins 8/18,  
10 available from Becton Dickinson), anti-keratin 5/6 (available originally from Boehringer Mannheim, Indianapolis, IN, cat. no. 1273396 and now from Chemicon International, Temecula, CA ), anti-keratin 17 (clone E3, available from Dako, Carpinteria, CA, cat. no. M7046), anti-CD3 (available from Dako), and anti-immunoglobulin light chain (A191, A193, available from Dako). These  
15 immunohistochemical methods were applied for all the immunohistochemical studies described in the present application unless otherwise stated. Results are presented in Figure 3 and are described in further examples as appropriate.

20

#### Example 4

##### cDNA Synthesis and Labeling and Microarray Hybridization

mRNA was isolated from breast tissue, breast tumor samples, and cell lines as described in Example 2. Fluorescently labeled cDNA was synthesized from the  
25 mRNA using a reverse transcriptase reaction that included dUTP labeled with either Cy3 or Cy5. For each hybridization experiment differentially labeled cDNA samples (an experimental sample and a reference sample) were pooled and hybridized to a cDNA microarray, which was then scanned as described in Example 4. The protocol below provides details of the steps performed for cDNA synthesis and labeling and  
30 for microarray hybridization.

1. To set up for the reverse transcriptase (RT) reaction, combine the following (e.g., in an Eppendorf tube):
  - (a) Anchored Oligo dT primer - 2 microliters at 2.5 micrograms/microliter or control - 2 microliters.
- 5       (b) mRNA - (whatever volume is needed to reach 1.5-2 micrograms)
- (c) DEPC/H<sub>2</sub>O - add sufficient volume so that final volume is 16 microliters
2. Heat at 70° C for 10 minutes
3. Chill on ice for 1-2 minutes
- 10   4. Add the following RT reaction components to each individual tube:
  - (a) 5X RT Buffer - 6 microliters
  - (b) 50X dNTPs - 0.7 microliters - (500mm A,C,G, 200mm T)
  - (c) Cy Dyes dUTP - 3 microliters - (either Cy3 or Cy5)
  - (d) DTT Stock - 3 microliters - (comes with RT setup)
- 15   (e) Superscript II RT--1.7 microliters - (cat# 18064-014 Gibco-BRL)
5. Mix well
6. Incubate at 42° C for 1 hour
7. Add another 1 microliter of Superscript II RT and mix
8. Incubate at 42° C for 1 more hour
- 20   9. Degrade mRNA with 1.5 microliters of 1M NaOH / 2mM EDTA
10. Incubate at 65° C for 8 minutes (do NOT go TOO long here)
11. Add 15 microliters of 0.1M HCL
12. Add 450 microliters of TE (pH 7.4) to each sample and place each sample into a microcon-30 filter.
- 25   13. Add 15 microliters of Human COT1 DNA (Gibco-BRL = 1 microgram/microliter) to each sample in the microcon filter.
14. Spin in Eppendorf centrifuge until volume equals about 50 microliters (8-10')
15. Remove flowthroughs, and pool Cy3 and Cy5 flowthroughs together for future recovery of Cy dyes (store at -20 ° C).
- 30   16. Invert microcons, recover labeled samples, and pool Cy3 and Cy5 samples together that will be used for an individual experiment, in a single microcon filter that was used in step 15.

17. Add 500 microliters of T.E again, and spin until final volume equals 8 microliters or less (BE VERY CAREFUL TO NOT SPIN THE SAMPLE DRY!!!)
18. To the 8 microliter combined Cy3 + Cy5 sample, add the following:
- 5 (a) Yeast tRNA - 1 microliter - (10 micrograms/microliter)
  - (b) PolyA DNA - 2 microliters - (10 micrograms/microliter)
  - (c) 20XSSC - 2 microliters - (FINAL SSC concentration approximately 3X)
  - (d) 10% SDS - 0.3 microliters
- FINAL VOLUME = 13.3 MICROLITERS
- 10 19. Mix well.
20. Heat sample at 100° C for 2 minutes, spin very briefly.
21. Place samples at 42° C for 20-30 minutes.
22. During Step 21, prepare the necessary number of hybridization chambers (Custom made by Die-Tech, San Jose, CA (see "Drawings for custom parts at
- 15 <http://cmgm.stanford.edu/pbrown/mguide/HybChamber.pdf>) or purchased at Corning Costar, Acton, MA (CTM™ Hybridization Chamber, #2551), get 22mm X 22mm coverslips ready, and get arrays ready.
23. Add the 13 microliters of probe (i.e., labeled cDNA mixture) onto the center of the array while NOT actually touching the array face with the pipette tip.
- 20 24. Quickly and gently place the 22mm X 22mm glass#1 coverslip onto the array face.
25. Add about 15-20 microliters of 3XSSC in two drops onto the end of the array slide away from the actual array for hydration purposes.
26. Assemble the hybridization chamber with the array slide in it, and place into a 65
- 25 C water bath overnight.
27. Pull out the hybridization chamber and dry off the excess H<sub>2</sub>O.
28. Disassemble the hybridization chamber, and quickly place the slides into a slide washing chamber that contains 2XSSC/0.05%SDS. Jiggle the slide holder up and down until the slide coverslip falls off. Repeat this individually for each array, one at
- 30 a time, until all are done
29. Wash slides in 1XSSC for 3-5 minutes.
30. Wash slides in 50 C 0.2XSSC for 3-5 minutes, twice.

31. Spin slides down in centrifuge at 200 RPM for 2 minutes.

32. SCAN immediately.

#### Example 5

#### 5 Collection, Processing, and Analysis of Data from Microarray Hybridizations

The cDNA microarrays were scanned with either a General Scanning (Watertown, MA) ScanArray 3000 at 20 microns resolution, or with a prototype Axon Instruments (Foster City, CA) GenePix Scanner at 10 micron resolution. The output files, which were TIFF images, were then analyzed using the program ScanAlyze (M. Eisen; available at <http://www.microarrays.org/software>). Fluorescent ratios and quantitative data on spot quality (see ScanAlyze manual) were stored in a prototype of the AMAD database (M. Eisen; available at <http://www.microarrays.org/software>). Areas of the array with obvious blemishes were manually flagged and excluded from subsequent analyses. The primary data tables can be downloaded at <http://genome-www.stanford.edu/molecularportraits/>, in text/tab delimited format after obtaining a password.

Data were extracted from the database in a single table, with each row representing an array element, each column a hybridization, and each cell the observed fluorescent ratio for the array element in the appropriate hybridization. Previously flagged spots were excluded, as were spots that did not pass quality control. This table had 9216 rows and 84 columns. Array elements were removed if they were not well measured in at least 80% of the hybridizations. The data table was split into tumors and cell lines, and the two subtables were separately median polished (the rows and columns were iteratively adjusted to have median 0) before being rejoined into a single table. Genes whose expression varied by at least 4-fold from the median in this sample set in at least three of the samples tested were selected for the analyses described in the Detailed Description and in Examples 6 and 7 (1753 genes satisfied these conditions).

30 Average-linkage hierarchical clustering, as implemented in the program Cluster (M. Eisen; <http://www.microarrays.org/software>), was applied separately to

both the genes and arrays. The results were analyzed, and images generated, using TreeView (M. Eisen; <http://www.microarrays.org/software>).

5

### Example 6

#### Molecular Portraits of Tumors Based on Variation in Expression of 1753 Genes

##### Methods

A hierarchical clustering method (Eisen, 1998) was used to group 1753 differentially expressed genes (i.e., those genes whose expression varied by at least 4-  
10 fold from the median in the sample set in at least three of the samples tested) based on similarity in the pattern with which their expression varied over all samples. The same clustering method was used to group the experimental samples (tissues and cell lines separately) based on the similarity in their patterns of expression. The data are conveniently presented in a matrix format, with each row representing a single gene,  
15 and each column representing an experimental sample. The ratio of the abundance of transcripts of each gene, in each sample, to the median abundance of the gene's transcript among all the cell lines (left panel) or to its median abundance across all the clinical samples (right panel) is represented by the color of the corresponding cell in the matrix. Green squares represent transcript levels below the median; black squares  
20 represent transcript levels equal to the median; red squares represent transcript levels greater than the median; gray squares indicate technically inadequate or missing data. The color saturation reflects the magnitude of the ratio relative to the median for each set of samples (see scale at bottom left). In all images the brightest red color represents transcript levels at least 16-fold greater than the median, and the brightest  
25 green color represents transcript levels at least 16-fold below the median.

##### Results

###### (i) Molecular Portraits of Tumors

Three striking general features of the tumors' gene expression patterns are  
30 evident in Appendices A and D. First, the breast tumors show remarkable variation in their patterns of gene expression. Second, this variation is multidimensional, that is, many different sets of genes show largely independent patterns of variation. Third,



the patterns of gene expression have a pervasive order reflecting relationships among the genes, relationships among the tumors, and connections between specific genes and specific tumors.

The hierarchical clustering algorithm organized the experimental samples  
5 based only on overall similarity in their gene expression patterns; relationships among the experimental samples are summarized in a dendrogram, in which the pattern and length of the branches reflect the relatedness of the samples (Eisen, M., *et al.*, 1998). Fifteen of the 20 pairs of samples taken from the same tumor before and after doxorubicin chemotherapy (red dendrogram branches), and both pairs of samples  
10 taken from a primary tumor and an associated lymph node metastasis (blue branches) were clustered together on adjacent terminal branches in the dendrogram. The three clustered normal breast samples are highlighted in green. The branches representing the four breast luminal epithelial cell lines are displayed in pink; breast basal epithelial cell lines are displayed in orange, the endothelial cell lines in blue, the  
15 mesenchymal-like cell lines in dark green, and the lymphocyte-derived cell lines in dark red.

Application of the clustering method to the samples and genes identified the two members of each primary tumor/metastasis pair as being closely related to one another based on similarity in gene expression. Thus this method can provide  
20 information useful in determining whether a tumor sample obtained from a second tumor is a metastasis originating from a first tumor or is an independent primary tumor. In addition, despite the potential confounding effects of an interval of 16 weeks, independent surgical procedures and cytotoxic chemotherapy, the independent samples taken from the same tumor before and after chemotherapy were in most cases  
25 recognizably more similar to each other in their overall pattern of gene expression than either was to any of the other samples.

Closer examination of the five before and after pairs that were not matched by the clustering algorithm provided further insight. In three instances, the after chemotherapy specimens (i.e. Norway 47, 61, and 101) were clustered into a branch  
30 of the dendrogram that contained the three normal breast samples along with five additional tumor samples; we know from the clinical data that these three tumors were all classified as doxorubicin responders (Table 5 and Aas, T., *et al.*). Thus, in most

cases, independent tumor biopsies from the same individual could be recognized as such solely on the basis of gene expression patterns. This implies that the patterns of gene expression are homogeneous and stable in each breast tumor, and yet, sufficiently diverse between tumors, so that they can be viewed as molecular portraits of each tumor.

#### (ii) Specific Properties of the Tumors

The molecular portraits revealed in the patterns of gene expression not only uncovered similarities and differences among the tumors but, in many cases, pointed to a biological interpretation. As discussed below, variation in growth rate, in the activity of specific signaling pathways, and in the cellular composition of the tumors were all reflected in corresponding variations in the expression of specific subsets of genes.

Growth and Proliferation. The largest distinct subset of genes among the 1753 genes was the proliferation subset, which is a group of approximately 120 genes whose level of expression correlates with cellular proliferation rates (See Perou, C., *et al.*, 1999; Ross, D., *et al.*, *Nature Genetics*, 24(3): 227-35, 2000.). Expression of this subset of genes varied widely among the tumor samples, and was generally well correlated with a standard pathological index of tumor cell proliferation, namely the mitotic index. The mitotic grade of each tumor, as determined by evaluating mitotic index, is displayed in a color-coded format below the tumor name, with green indicating mitotic grade 1, black indicating mitotic grade 2, red indicating mitotic grade 3, and gray indicating that mitotic grade was not evaluated. The growth and proliferation cluster also included the genes encoding two widely used immunohistochemical markers of cell proliferation (*Ki-67* and *PCNA*, names in blue/purple letters).

Diverse proliferation-related functions are represented in the genes comprising this subset, including macromolecular synthesis, cell-cycle regulation, mitosis and cytokinesis. Many genes in which alterations in sequence or expression that are associated with tumorigenesis were also found in this gene subset, in particular, numerous genes implicated in chromosomal instability and/or aneuploidy (names in

pink letters)<sup>22</sup>. These genes included the spindle checkpoint gene *hBUB1*<sup>23</sup>, the human *MAD2* homologue<sup>24</sup>, the *STK15/IPL1* kinase<sup>25</sup>, and the *PLK1/HSTPK13* kinase<sup>26</sup>.

- The importance of this clustered set of genes in cancer biology is further highlighted by its inclusion of genes encoding the molecular targets of widely used anticancer agents (names in orange letters), including both subunits of ribonucleotide reductase, topoisomerase II alpha, and dihydrofolate reductase. The many uncharacterized genes in this subset, therefore, are candidates for important roles in the regulation and execution of the cell's program for growth and proliferation, and potential targets for oncogenic mutations or antiproliferative drugs. Thus the clustering method, by generating a set of genes known to be involved in proliferation and/or known to be targets for antiproliferative drugs and further identifying a set of unknown genes whose expression patterns cause them to fall within the subset, identifies potential targets for the development of new chemotherapeutic agents.
- 15 Variation in signaling pathways. Several groups of co-expressed genes provided views of the activities of specific signaling and/or regulatory systems.
- (a) Interferon signaling: A large subset of genes known to be regulated by the interferon pathway (including *STAT1*) showed substantial variation in expression among the tumors.
- 20 (b) Estrogen receptor: Variation in expression of the estrogen receptor alpha gene (*ESR1*) correlated well with the direct clinical measurement of the estrogen receptor protein levels in the tumors (Table 5, concordance in 36/38 tumors tested), and paralleled variation in the expression of a larger group of genes that included three other transcription factors (GATA-binding protein 3, X-box binding protein 1 and
- 25 hepatocyte nuclear factor 3 alpha (see also references 27 and 28). In a specific subset of the estrogen receptor positive tumors, the *BCL2* gene and two previously known estrogen regulated genes (*LIV1* and trefoil factor 1<sup>29</sup>) were also highly expressed (See Appendices C and D). The regulatory program reflected in the expression of this *ESR1*-containing subset of genes may play an important role in the clinical course of a
- 30 breast tumor, as the loss of expression of the estrogen receptor is known to be associated with a poor prognosis<sup>17</sup>, while high levels of expression of both *BCL2* and *ESR1* are associated with a more favorable prognosis<sup>30,31</sup>.

(c) Erb-B2: *HER2/neu*, also known as the *Erb-B2* oncogene, is a gene whose aberrant expression is thought to contribute to tumorigenesis in the breast<sup>16</sup>. The *Erb-B2* receptor-tyrosine kinase is known to be overexpressed in 20-30% of all breast tumors, usually associated with DNA amplification of the chromosomal locus (17q12-q22) that contains the *ERB-B2* gene<sup>32,33</sup>. Interestingly, most of the other genes contained within the *Erb-B2* cluster were also located in this same small region of Chromosome 17. These expression data suggested, and the results of microarray comparative genomic hybridization confirmed, that these other closely linked genes were also amplified on the genomic DNA level and, consequently, overexpressed on the mRNA level in tumors with an amplified *Erb-B2* gene<sup>33-35</sup>.

(d) Fos/Jun Signaling: A subset of genes that included *c-Fos*, *JunB*, and other genes involved in the "immediate-early" response to serum, co-varied in expression among the tumor specimens; these genes were most highly expressed in the three normal breast samples. Applicants have found that this set of genes is characteristically induced by prolonged handling of the samples following surgical resection. The observed variation in the expression of this set of genes may therefore reflect variation in post surgical handling rather than true *in vivo* differences.

20

#### Example 7

#### Identification of Cell Type Specific Components Within Tumors Based on Variation in Expression of 1753 Genes

##### Methods and Rationale

25

Clustering was performed as described in the previous Example. The resulting dendrogram and matrix were used to identify gene expression patterns indicative of the presence of certain cell types within the samples. Human breast tumors are histologically complex tissues, containing a variety of cell types in addition to the carcinoma cells<sup>18</sup>. In analyzing the gene expression patterns in tumors and tissues, two lines of reasoning were used to infer the lineage of the cells that accounted for apparently cell-type specific expression of particular clustered groups of genes. First, such gene subsets usually included genes whose expression patterns have been well

30

characterized by previous workers, and have consistently pointed to a specific cell type. Second, these inferences were often corroborated by observing comparable expression of the same group of genes in one or more of the cultured cell lines (reference 21). Some of the prominent patterns of gene expression that appear, on this basis, to indicate the variable abundance of particular cell types in these tissue samples are summarized below.

Immunohistochemistry was performed as described in Example 3.

### Results

At least eight subsets of genes appeared to reflect variation in specific cell types present within the tumors. The notion that developmental lineage has a pervasive influence on gene expression patterns is highlighted by the clustering pattern of the cultured cell lines. For example, the three lymphocyte cell lines comprise one branch, the two endothelial cell lines constitute another and the mesenchymal cell lines form a third. Cell lines derived from two distinct types of breast epithelial cells (basal and luminal) also formed distinct dendrogram branches. Some of the prominent patterns of gene expression that appear to indicate the variable abundance of particular cell types within a tumor sample are summarized in the remainder of this Example.

20

(a) Endothelial cells: A subset of genes characteristically expressed by endothelial cells, including CD34, CD31 and von Willebrand Factor<sup>36,37</sup> were also strongly expressed in the two endothelial cell lines HUVEC and HMVEC. Variation among the tumor samples in the abundance of transcripts from this subset of genes may therefore reflect variation in the vascularity or angiogenic activity within the tumors.

25

(b) Stromal cells: A previously characterized subset of genes that included multiple isoforms of collagen and other genes encoding extracellular matrix components, many of which are characteristically expressed by mesenchymal cells, showed significant variation in expression among the tumor samples<sup>8,21</sup>.

30

(c) Adipose-Enriched/Normal Breast: A subset of genes that included fatty acid binding protein 4 and PPAR $\gamma$  may represent the presence of adipose cells in the tumor samples<sup>38,39</sup>. This subset of genes was most highly expressed in the three normal breast

samples. As we have no cell line guide for this cluster, the exact nature of the cell type underlying expression of these genes cannot be unequivocally determined.

(d) B-lymphocytes: Variation in expression of a subset of genes that were highly expressed in RPMI-8226 (a multiple myeloma-derived cell line), including many immunoglobulin genes, appears to represent variable B-cell infiltration of the tumors. This interpretation was corroborated by immunohistochemistry<sup>8,21</sup>.

(e) T-lymphocytes: One subset of co-expressed genes included CD3, and two subunits of the T-cell receptor. Most of the genes in this subset were expressed at their highest levels in the T-cell leukemia derived cell line, MOLT-4. Variation in expression of this subset of genes was therefore interpreted as representing variation in T-lymphocyte populations in the tumors. Immunohistochemical staining of tumor samples, using anti-CD3 antibodies, confirmed that tumors with the highest levels of expression of this subset of genes contained numerous CD3-positive lymphocytes (Figure 3b).

(f) Macrophages: A subset of genes that appeared to be markers of macrophage/monocyte populations included CD68, acid phosphatase 5, chitinase, and lysozyme. Interestingly, the transcripts for these genes were the most abundant in the three after chemotherapy tumor samples that clustered apart from their before counterparts (i.e. Norway 47, 61, and 101). These three tumors, all of which had responded to the chemotherapy, were thus notable not only for an overall gene expression pattern resembling that of normal breast tissue, but also, for a particularly large population of macrophages, perhaps representing a secondary response to tumor necrosis.

(g) Basal and Luminal Epithelial Cells of the Mammary Duct, and Their Malignant Counterparts: Two distinct kinds of epithelial cells are found in the adult human mammary gland, basal (and/or myoepithelial cells) and luminal epithelial cells<sup>18,40</sup>. These two cell types are conveniently distinguished immunohistochemically; basal epithelial cells can be stained with antibodies to keratin 5/6 (Figure 3c), while luminal epithelial cells stain with antibodies against keratins 8/18 (Figure 3c). Many genes were expressed by one of these two cell lines, but not by the other. The gene expression subsets characteristic of basal epithelial cells included several genes that have previously been shown to play important roles in this cell type, e.g., keratin 5,

keratin 17, integrin- $\alpha$ 4 and laminin<sup>18</sup>. The gene expression subset characteristic of luminal cells was anchored by the previously noted subset of transcription factors that included the estrogen receptor gene.

5

### Example 8

#### Classification of Breast Tumors Using an Optimized Set of Genes Showing Differential Expression Between Tumors

##### 10 Methods and Rationale

As described in Examples 6 and 7, analysis of genes that are differentially expressed in breast tumor samples provides an indication of the relatedness of the samples and allows identification of samples taken from the same tumor or members of a tumor/metastasis pair. Such analysis further provides insight into specific tumor properties such as variation in growth rate, activity of specific signaling pathways, and the cellular composition of the tumors. The subset of genes analyzed in Examples 6 and 7 was selected solely based upon the fact that genes in the subset were differentially expressed among the experimental samples. Recognizing that the choice of genes whose expression levels provide the basis for the ordering of the tumor samples determines which phenotypic relationships among the tumors are reflected in the clustering patterns, applicants devised methods for selecting subsets of genes optimized to reflect phenotypic relationships among the tumors.

##### (i) Selection of an intrinsic gene subset

25 The rationale behind the first optimized gene subset was Applicants' recognition that specific features of a gene expression pattern that are to be used as the basis for classifying tumors should typify that tumor; that is, these features should be similar in any sample taken from the same tumor, and they should vary among different tumors. The 22 pairs of independent samples taken from 22 different tumors provided an opportunity for the selection of genes that fulfill these criteria. To select a set of genes whose variation in expression optimally represented differences between tumors rather than just differences between tumor samples, a "within-

between" score was assigned to each gene equal to the mean effect of the gene on the pairwise correlation coefficients of the 22 matched tumor pairs less the mean effect of the gene on the remaining 210 tumor-tumor pairwise correlation coefficients. The "effect" of a gene on a pairwise correlation was defined as the difference in the correlation coefficient with and without data for the gene included. Higher "within-between" scores indicated that the gene had a good tendency to group together paired samples.

The 496 genes with a score one standard deviation above the mean score were selected and defined as the "intrinsic" gene subset. To confirm the existence of an "intrinsic" set of genes and to verify that the "within-between" score identified these genes, the predictive quality of the score was examined using a type of "leave-one-out" cross-validation analysis. The entire analysis was repeated 22 times, each with one of the 22 matched pairs completely removed from the analysis. If an "intrinsic" set of genes existed, and if the "within-between" score successfully identified these genes, it was expected that the genes with high scores in each reduced dataset would produce relatively high correlations in the excluded pair. When the genes were sorted based on their "within-between" score in each reduced dataset, the correlation coefficient of the excluded matched pair in sliding windows of 250 genes increased progressively with increasing "within-between" score for nearly all of the matched pairs, while no such increase was found when randomly matched pairs were used.

The clustering method was used as described above to cluster the experimental samples based on the gene expression patterns of the 496 genes included in the "intrinsic" gene subset.

#### (ii) Selection of an "epithelial-enriched" gene subset

A second optimized gene subset (called the "epithelial-enriched" gene subset) was selected consisting of 374 genes that Applicants considered likely to be expressed primarily by normal or malignant breast epithelial cells. The rationale for this gene subset is that each of the tumors was ultimately caused by alterations in breast epithelial cells. The seven individual subsets of genes that were chosen to form the "epithelial-enriched" gene subset were selected from the 1753 gene cluster diagram.



The actual groups of genes chosen are listed in Table 7. These seven subsets of genes included:

- 1) A subset that was very highly expressed in the cultured basal cell lines, along with some of the other breast derived cell lines including Hs578T and BT-549;
- 5 2) A subset that was expressed in all of the cultured epithelial cell lines (both basal and luminal);
- 3) A subset of genes centered around the high level of expression of *Erb-B2*;
- 4) A subset of genes that contained genes known to be important for tumor biology (e.g., the urokinase receptor);
- 10 5) A subset that contained genes that were most highly expressed in the basal-like tumors;
- 6) A subset of genes highly expressed in some of the luminal-like tumors;
- 7) A subset of genes that was primarily expressed in the four breast carcinoma derived cell lines and/or in many of the luminal-like tumors.

15

The clustering method was used as described above to cluster the experimental samples based on the gene expression patterns of the 374 genes included in the "epithelial-enriched" gene set.

- To confirm the results of the clustering analysis described below, a "weighted  
 20 voting" method was applied to the data as described in Golub, T.R., *et al.*, *Science*,  
 286, 531-537, 1999.

### Results

The 496 genes included in the "intrinsic" gene set are identified in Table 6.

- 25 Two large branches were apparent in the tumor dendrogram that resulted from analysis based on this gene set, and within each of these two branches, smaller branches were identified for which common biological themes could be inferred. The branches are colored accordingly (basal-like = ORANGE, *Erb-B2* positive = PINK, normal breast-like = GREEN, and luminal epithelial-like = BLUE). Seventeen of the  
 30 20 before and after doxorubicin pairs (indicated with suffixes BE and AF following the numerical identifier for each tumor) were matched together on terminal dendrogram branches (red branches), as were both of the tumor/lymph node

metastasis pairs (blue branches). The small black bars beneath the dendrogram identify the 17 pairs that were correctly matched by this hierarchical clustering, while the larger green bars identify the positions of the three pairs that were not matched by the clustering. It is noted that the after-chemotherapy sample in each of these three sample pairs was clustered in a branch with normal breast tissue samples. Thus as for the 1753 gene set described in Examples 6 and 7, the intrinsic gene subset correctly identified independent tumor samples from the same tumor as related to each other. Despite the potential confounding effects of an interval of 16 weeks, independent surgical procedures and cytotoxic chemotherapy, the independent samples taken from the same tumor were in most cases recognizably more similar to each other in their overall pattern of gene expression than either was to any of the other samples. In addition, samples taken from a primary tumor and a metastasis from the same tumor could be recognized as closely related to one another. Thus in most cases independent samples from the same tumor were recognizable as such solely on the basis of gene expression patterns. This implies that the patterns of gene expression are homogeneous and stable in each breast tumor and yet sufficiently diverse between tumors so that they can be viewed as molecular portraits of each tumor.

The 374 genes included in the "epithelial-enriched" subset are listed in Table 8. Figure 2 presents a comparison of tumor dendrograms representing the results of hierarchical clustering of experimental samples using the "intrinsic" gene set and the dendrogram obtained by clustering using the "epithelial-enriched" gene set. The dendrograms are colored according to the clustering patterns obtained using the "intrinsic" gene set. Only two tumors (identified by the colored arrows) were placed in significantly different groups when the clustering was based on expression of the "epithelial-enriched" gene set instead of the "intrinsic" gene set.

The overall architecture of the two dendrograms representing the clustering of breast tumor samples using these two alternative gene sets was very similar, with only two tumor pairs (i.e. Norway 14 and 26) materially changing position (Figure 2). Thus, the classifications derived from the "intrinsic" gene set are consistent with the results using the "epithelial-enriched" gene set, even though the two sets shared only 25% of their genes.

A consistent division of the tumor samples into two subgroups was a striking feature of the dendrograms produced by both gene sets. Application of the "weighted voting" method of Golub recapitulated the sorting of the tissue samples between these two subgroups for all but one of the 65 samples, thus confirming the robustness of the division.

#### Example 9

##### Identification of Breast Tumor Subgroups Based on Optimized Gene Sets

Several groups of tumors that shared pervasive similarities in their expression patterns could be identified by cluster analysis; the dendrograms in Figure 2 are color-coded to highlight these subgroups. Characteristic features of the expression patterns, or the membership, of each highlighted group also suggested biological interpretations. These data confirm the ability of the clustering method to divide breast tumors into meaningful subgroups when applied using the "intrinsic" and "epithelial-enriched" gene subsets. Specific subgroups are discussed below and are named according to correlations between the genes expressed at high levels in the tumors and genes known to be expressed in particular cell types.

Luminal Epithelial Cell Pattern: As described above, the major distinction was between a large group of tumors (identified by blue letters and dendrogram branches) and a second large group that included all of the other tumor subtypes and the normal breast samples (highlighted in other colors). The tumors in this "blue" group were characterized by relatively high levels of expression of many genes known to be expressed by the luminal epithelial cells of the normal mammary duct, notably including the estrogen and prolactin receptors. This connection was further corroborated using immunohistochemical analysis of breast tumor sections using antibodies against the luminal cell keratins 8/18, which stained the carcinoma cells in tumor specimens in this "blue" branch as shown, for example, in Figure 3f. With one exception, none of the tumors in this group expressed *Erb-B2* at high levels. An estrogen receptor-positive phenotype is known to be associated with a relatively favorable prognosis<sup>30,31</sup>, while *Erb-B2* expression is believed to contribute to tumorigenesis.

Normal Breast Tissue Pattern: Several tumors, including two “before and after” pairs and the single fibroadenoma tested (displayed in green), were clustered in a group of samples that contained all three of the normal breast specimens. The “normal breast” gene expression pattern was typified by a relatively high level of expression of genes characteristic of basal epithelial cells and adipose cells, and relatively low levels of expression of genes characteristic of luminal epithelial cells.

Basal Epithelial Cell Pattern: Many of the genes characteristic of basal epithelial cells were highly expressed in a group of six tumors (New York 2 and 3, Stanford 14 and 23, and Norway 41 and 109, indicated in orange in the dendrogram, that were clustered based on pervasive similarities in their gene expression patterns. To corroborate the “basal cell-like” characteristics of these tumors, immunohistochemistry was performed using antibodies against keratins 5/6, 8/18, and 17. All six of these tumors showed staining for either keratins 5/6 and/or 17 (basal cell keratins), and no staining for keratins 8/18 (See Figure 3e.) Notably, these six tumors also failed to express the estrogen receptor and most of the other genes that were usually co-expressed with it. Approximately 90% of breast tumors are suggested to have characteristics of luminal epithelial cells, while the characteristics of the remaining 10% are less well defined<sup>18</sup>. Breast tumors that stain positive for basal cell keratins may account for 3-15% of all breast tumors<sup>41-46</sup>.

The incidence among the tumor samples described herein was 15% (6/40). Many of the tumors that stained positive for basal cell keratins only showed staining in a fraction of the tumor cells, and neither basal nor luminal keratins could be detected in any of the other remaining tumor cells (Figure 3e).

Erb-B2 Positive: As mentioned above, overexpression of the *Erb-B2* oncogene was associated with a high level of expression of a specific set of genes, almost all of which map to the *Erb-B2* region of chromosome 17<sup>33</sup>. A clustered group of tumors was identified that was partially characterized by the high level of expression of this subset of genes (Stanford 2 and Norway 47, 53, 57 and 101). These tumors showed low levels of expression of the estrogen receptor<sup>48,49</sup> and almost all of the other genes associated with estrogen receptor expression, a trait they share with the “basal-like” tumors, and which may contribute to the poor prognosis associated with these two

subtypes of breast tumors<sup>41,43,49,50</sup>; in addition, both the basal-like and *Erb-B2* positive tumors also show many *p53* sequence mutations (see Table 5).

#### Example 10

##### 5 Producing Antibodies to Basal Marker Polypeptides and Cytokeratin 17

This example describes the generation of polyclonal antibodies that bind to cyto-  
keratin 17 and the generation of polyclonal antibodies that bind to the  
polypeptides encoded by the three basal marker genes described herein, i.e.,  
10 cadherin3, matrix metalloproteinase 14, and cadherin EGF LAG seven-pass G-type  
receptor 2 : The example further describes affinity purification of the antibodies.

##### Materials

- Anisole (Cat. No. A4405, Sigma)
- 2,2'-azino-di-(3-ethyl-benzthiazoline-sulfonic acid) (ABTS) (Cat. No. A6499,
- 15 Molecular Probes Eugene, OR)
- Activated Maleimide Keyhole Limpet Cyanin (Cat. No. 77106, Pierce Chemical  
Co. Rockford, IL)
- Biotin (Cat. No. B2643, Sigma)
- Boric acid (Cat. No. B0252, Sigma)
- 20 • Sepharose 4b (Cat. No. 17-0120-01, LKB/Pharmacia, Uppsala, Sweden)
- Bovine Serum Albumin (LP) (Cat. No. 100 350, Boehringer Mannheim,  
Indianapolis, IN)
- Cyanogen bromide (Cat. No. C6388 Sigma, St. Louis, MO)
- Dialysis tubing Spectra/Por Membrane MWCO: 6-8,000 (Cat. No. 132 665,
- 25 Spectrum Industries Inc., Laguna Hills, CA)
- Dimethyl formamide (DMF) (Cat. No. 22705-6, Aldrich Chemical Company,  
Milwaukee, WI)
- DIC (Cat. No. BP 592-500, Fisher)
- Ethanedithiol (Cat. No. 39,802-0, Aldrich Chemicals, Milwaukee, WI)
- 30 • Ether (Cat. No. TX 1275-3, EM Sciences)
- Ethylenediaminetetraacetic acid (EDTA)(Cat No. BP 120-1, Fisher Scientific,  
Springfield, NJ)

- 1-ethyl-3-(3'-dimethylaminopropyl)-carbodiimide, HCL (EDC) (Cat No. 341-006, Calbiochem, San Diego, CA)
- Freund's Adjuvant, complete (Cat. No. M-0638-50B, Lee Laboratories, Grayson, GA)
- 5 • Freund's Adjuvant, incomplete (Cat. No. M0639-50B, Lee Laboratories)
- Fritted chromatography columns (Column part No. 12131011; Frit: Part No. 12131029, Varian Sample Preparation Products, Harbor City, CA)
- Gelatin from Bovine Skin (Cat. No. G9382, Sigma)
- Glycine (Cat. No. BP381-5, Fisher)
- 10 • Goat anti-rabbit IgG, biotinylated (Cat No. A 0418, Sigma)
- HOBt (Cat. No. 01-62-0008, Calbiochem-Novabiochem)
- Horseradish peroxidase (HRP) (Cat. No. 814 393, Boehringer Mannheim)
- HRP-Streptavidin (Cat. No. S 5512, Sigma)
- Hydrochloric Acid (Cat No. 71445-500, Fisher)
- 15 • Hydrogen Peroxide 30% w/w (Cat. No. H1009, Sigma)
- Methanol (Cat. No. A412-20, Fisher)
- Microtiter plates, 96 well (Cat. No. 2595, Corning-Costar Pleasanton, CA)
- N- $\square$ -Fmoc protected amino acids available from Calbiochem-Novabiochem, San Diego, CA. See 1997-1998 catalog pages 1-45.
- 20 • N- $\square$ -Fmoc protected amino acids attached to Wang Resin available from Calbiochem-Novabiochem. See 1997-1998 catalog pages 161-164.
- NMP (Cat. No. CAS 872-50-4, Burdick and Jackson, Muskegon, MI)
- Peptide (Synthesized by Research Genetics, Inc. Details given below)
- Piperidine (Cat. No. 80640, Fluka, available through Sigma)
- 25 • Sodium Bicarbonate (Cat. No. BP328-1, Fisher)
- Sodium Borate (Cat. No. B9876, Sigma)
- Sodium Carbonate (Cat. No. BP357-1, Fisher)
- Sodium Chloride (Cat. No. BP 358-10, Fisher)
- Sodium Hydroxide (Cat. No. SS 255-1, Fisher)
- 30 • Streptavidin (Cat. No. 1 520, Boehringer Mannheim)
- Thioanisole (Cat. No. T-2765, Sigma)
- Trifluoroacetic acid (Cat. No. TX 1275-3, EM Sciences)

- Tween-20 (Cat. No. BP 337-500, Fisher)
- Wetbox-(Rubbermaid Rectangular Servin' Saver™ Part No. 3862 Wooster, OH)

### Solutions

- 5 • BBS - Borate Buffered Saline with EDTA dissolved in distilled water (pH 8.2 to 8.4 with HCl or NaOH)
- 25 mM Sodium borate (Borax)
  - 100 mM Boric Acid
  - 75 mM NaCl
- 10 -5 mM EDTA
- 0.1 N HCl in saline
    - concentrated HCl (8.3 mL/0.917 L distilled water)
    - 0.154 M NaCl
  - Glycine (pH 2.0 and pH 3.0) dissolved in distilled water and adjusted to the
- 15 desired pH.
- 0.1 M glycine
  - 0.154 M NaCl
  - 5X Borate 1X Sodium Chloride dissolved in distilled water.
- 20 -0.11 M NaCl
- 60 mM Sodium Borate
  - 250 mM Boric Acid
  - Substrate Buffer in distilled water adjusted to pH 4.0 with sodium hydroxide:
    - 50 to 100 mM Citric Acid

### 25 Peptide Synthesis Solutions

- AA solution: HOBt is dissolved in NMP (8.8 grams HOBt to 1 liter NMP). Fmoc-N-a-amino at a concentration at .53 M.
  - DIC solution: 1 part DIC to 3 parts NMP.
  - Deprotecting solution: 1 part Piperidine to 3 parts DMF
- 30 • Reagent R: 2 parts anisole, 3 parts ethanedithiol, 5 parts thioanisole, 90 parts trifluoroacetic acid.

### Equipment

- MRX Plate Reader (Dynatech Inc., Chantilly, VA)
- Hamilton Eclipse (Hamilton Instruments, Reno, NV)
- Beckman TJ-6 Centrifuge, Refrigerated (Model No. TJ-6, Beckman Instruments,  
5 Fullerton, CA)
- Chart Recorder (Recorder 1 Part No. 18-1001-40, Pharmacia LKB Biotechnology)
- UV Monitor (Uvicord SII Part No. 18-1004-50, Pharmacia LKB Biotechnology)
- Amicon Stirred Cell Concentrator (Model 8400, Amicon Inc., Beverly, MA)
- 30 kD MW cut-off filter (Cat. No. YM-30 Membranes Cat. No. 13742, Amicon  
10 Inc., Beverly, MA)
- Multi-channel Automated Pipettor (Cat. No. 4880, Corning Costar Inc.,  
Cambridge, MA)
- pH Meter Corning 240 (Corning Science Products, Corning Glassworks, Corning,  
NY)
- 15 • ACT396 peptide synthesizer (Advanced ChemTech, Louisville, KY)
- Vacuum dryer (Box is from Labconco, Kansas City, MO; Pump is from Alcatel,  
Laurel MD).
- Lyophilizer (Unitop 600sl in tandem with Freezemobile 12, both from Virtis,  
Gardiner, NY)

20

### Methods

- Peptides were selected using the program Omega<sup>TM</sup>1.1 (Oxford Molecular Group, Inc., 2105 So. Bascom Ave., Suite 200, Campbell, CA 95008) using the Hopp/Woods method, which is described in Hopp TP, Woods KR, *Mol Immunol*,  
25 Apr;20(4):483-9 A computer program for predicting protein antigenic determinants,  
1983, and Hopp TP and Woods KR, *Proc. Nat. Acad. Sci. U.S.A.* 78, 3824-3828,  
1981. Preferred peptide sequences displayed minimal homology with known  
proteins. Three peptide sequences were selected for each polypeptide. The sequences  
were as follows:

30

Peptides for antibodies that bind to cadherin3 (GenBank accession number  
NP\_001784):



RAVFREA EVTLEAGGAEQE (SEQ ID NO:4)

QEPALFSTDNDDFTVRN (SEQ ID NO:5)

QKYEAHV PENAVGHE (SEQ ID NO:6)

5

Peptides for antibodies that bind to matrix metalloproteinase 14 (GenBank accession number NP\_004986):

10 AYIREGHEKQADIMIFFAE (SEQ ID NO:7)

DEASLEPGYPKHIKELGR (SEQ ID NO:8)

RGSFMGSDEVFTYFYK (SEQ ID NO:9)

15 Peptides for antibodies that bind to anti-cadherin EGF LAG seven-pass G-type receptor 2 (GenBank accession number NP\_001399):

QASSLRLEPGRANDGDWH (SEQ ID NO:10)

ELKGFAERLQRNESGLDSGR (SEQ ID NO:11)

20 RSGKSQPSYIPFLREE (SEQ ID NO:12)

Peptides for antibodies that bind to anti-cytokeratin17:

25 KKEPVTTRQVRTIVEE (SEQ ID NO:13)

QDGKVISSREQVHQTTR (SEQ ID NO:14)

SSSIKGSSGLGGSS (SEQ ID NO:15)

#### Synthesis of Peptides

30 Incubate: Resin was immersed in appropriate solution. All incubation steps occurred with mixing.

Wash: Added 2 mls. DMF, incubated 5 minutes and drained.

Wash Cycle: Five washes.

#### Machine Synthesis

5 The sequence of the desired peptide was provided to the peptide synthesizer. The C-terminal residue was determined and the appropriate Wang Resin was attached to the reaction vessel. The peptides were synthesized C-terminus to N-terminus by adding one amino acid at a time using a synthesis cycle. Which amino acid is added was controlled by the peptide synthesizer, which looks to sequence of the peptide entered into its database.

10

Step 1 – Resin Swelling: Added 2 mL DMF, incubated 30 minutes, drained DMF.

Step 2 – Synthesis cycle

2a – Deprotection: 1 mL deprotecting solution was added to the reaction vessel and incubated for 20 minutes.

15

2b – Wash Cycle

2c – Coupling: 750 mL of amino acid solution and 250 mL of DIC solution were added to the reaction vessel. The reaction vessel was incubated for thirty minutes and washed once. The coupling step was repeated once.

2d – Wash Cycle

20 Step 2 was repeated over the length of the peptide. The amino acid solution changed as the sequence listed in peptide synthesizer dictated.

Step 3 – Final Deprotection: Steps 2a and 2b were performed one last time.

25 Resins were deswelled in methanol—rinsed twice in 5 mL methanol, incubated 5 minutes in 5 mL methanol, rinsed in 5 mL methanol—and then vacuum dried.

Peptide was removed from the resin by incubating 2 hours in reagent R and then precipitated into ether. Peptide was washed in ether and then vacuum dried. Peptide was resolubilized in diH<sub>2</sub>O, frozen, and lyophilized overnight.

30

#### Conjugation of Peptide with Keyhole Limpet Hemocyanin

Peptide (6 mg) was dissolved in PBS (6 mL) and mixed with 6 mg of maleimide

activated KLH carrier in 6 mL of PBS for a total volume of 12 mL. The entire solution was mixed for two hours, dialyzed in 1L PBS, and lyophilized.

#### Immunization of Rabbits

- 5 Two New Zealand White Rabbits were injected with 250 µg keyhole limpet hemocyanin (KLH) conjugated peptide in an equal volume of complete Freund's adjuvant and saline in a total volume of 1 mL. Antigens (KLH-Peptide, 100 µg each) in an equal volume of incomplete Freund's Adjuvant and saline were injected into three to four subcutaneous dorsal sites for a total volume of 1 mL two, four, and six  
10 weeks after the first immunization. The three peptides were injected together.

The immunization schedule was as follows:

|        |  |
|--------|--|
| Day 0  | Pre-immune bleed, primary immunization |
| Day 15 | 1st Boost                              |
| Day 27 | 1st Bleed                              |
| Day 44 | 2nd Boost                              |
| Day 57 | 2nd Bleed and 3rd Boost                |
| Day 69 | 3rd Bleed                              |
| Day 84 | 4th boost                              |
| Day 98 | 4th bleed                              |

#### 15 The Collection of Rabbit Serum

The rabbits were bled (30 to 50 mL) from the auricular artery. The blood was allowed to clot at room temperature for 15 minutes and the serum was separated from the clot using an IEC DPR-6000 centrifuge at 5000 x g. Cell-free serum was decanted gently into a clean test tube and stored at -20°C for affinity purification.

20

#### Determination of Antibody Titer

All solutions with the exception of wash solution were added by the Hamilton Eclipse, a liquid handling dispenser. The antibody titer was determined in the rabbits using an ELISA assay with peptide on the solid phase. Flexible high binding ELISA

plates were passively coated with peptide diluted in BBS (100  $\mu$ L, 1  $\mu$ g/well) and the plate was incubated at 4°C in a wetbox overnight (air-tight container with moistened cotton balls). The plates were emptied and then washed three times with BBS containing 0.1% Tween-20 (BBS-TW) by repeated filling and emptying using a semi-automated plate washer. The plates were blocked by completely filling each well with BBS-TW containing 1% BSA and 0.1% gelatin (BBS-TW-BG) and incubating for 2 hours at room temperature. The plates were emptied and sera of both pre- and post-immune serum were added to wells. The first well contained sera at 1:50 in BBS. The sera were then serially titrated eleven more times across the plate at a ratio of 1:1 for a final (twelfth) dilution of 1:204,800. The plates were incubated overnight at 4°C. The plates were emptied and washed three times as described.

Biotinylated goat anti-rabbit IgG (100  $\mu$ L) was added to each microtiter plate test well and incubated for four hours at room temperature. The plates were emptied and washed three times. Horseradish peroxidase-conjugated Streptavidin (100  $\mu$ L diluted 1:10,000 in BBS-TW-BG) was added to each well and incubated for two hours at room temperature. The plates were emptied and washed three times. The ABTS was prepared fresh from stock by combining 10 mL of citrate buffer (0.1 M at pH 4.0), 0.2 mL of the stock solution (15 mg/mL in water) and 10  $\mu$ L of 30% H<sub>2</sub>O<sub>2</sub>. The ABTS solution (100 $\mu$ L) was added to each well and incubated at room temperature. The plates were read at 414 nm, 20 minutes following the addition of substrate.

#### Preparation of the Peptide Affinity Purification Column:

The affinity column was prepared by conjugating 5 mg of peptide to 10 mL of cyanogen bromide-activated Sepharose 4B, and 5 mg of peptide to hydrazine-Sepharose 4B. Briefly, 100  $\mu$ L of DMF was added to peptide (5 mg) and the mixture was vortexed until the contents were completely wetted. Water was then added (900  $\mu$ L) and the contents were vortexed until the peptide dissolved. Half of the dissolved peptide (500  $\mu$ L) was added to separate tubes containing 10 mL of cyanogen-bromide activated sepharose 4B in 0.1 mL of borate buffered saline at pH 8.4 (BBS), and 10 mL of hydrazine-Sepharose 4B in 0.1 M carbonate buffer adjusted to pH 4.5 using excess EDC in citrate buffer pH 6.0. The conjugation reactions were allowed to

proceed overnight at room temperature. The conjugated sepharose was pooled and loaded onto fritted columns, washed with 10 mL of BBS, blocked with 10 mL of 1 M glycine, and washed with 10 mL 0.1 M glycine adjusted to pH 2.5 with HCl and re-neutralized in BBS. The column was washed with enough volume for the optical density at 280 nm to reach baseline.

#### The Affinity Purification of Antibodies

The peptide affinity column was attached to a UV monitor and chart recorder.

10. The titrated rabbit antiserum was thawed and pooled. The serum was diluted with one volume of BBS and allowed to flow through the columns at 10 mL per minute. The non-peptide immunoglobulins and other proteins were washed from the column with excess BBS until the optical density at 280 nm reached baseline. The columns were disconnected and the affinity purified column was eluted using a stepwise pH gradient from pH 7.0 to pH 1.0. The elution was monitored at 280 nm, and fractions containing antibody (pH 3.0 to pH 1.0) were collected directly into excess 0.5 M BBS. Excess buffer (0.5 M BBS) in the collection tubes served to neutralize the antibodies collected in the acidic fractions of the pH gradient.
- 20 The entire procedure was repeated with "depleted" serum to ensure maximal recovery of antibodies. The eluted material was concentrated using a stirred cell apparatus and a membrane with a molecular weight cutoff of 30 kD. The concentration of the final preparation was determined using an optical density reading at 280 nm. The concentration was determined using the following formula:  $\text{mg/mL} = \text{OD}_{280}/1.4$ .

25

#### Example 11

##### SDS-PAGE and Immunoblot Analysis of Basal Marker Polypeptides

- To investigate the expression pattern of cadherin3, matrix metalloproteinase 14, and cadherin EGF LAG seven-pass G-type receptor 2, extracts were made from a variety of different cell lines and subjected to SDS-PAGE followed by

immunoblotting according to the protocol below, using affinity purified polyclonal antibody to BSTP-ECG1 prepared as described in Example 10.

Materials

- Acetic acid, Glacial (Cat. No. A38°-212, Fisher)
- 5 • Acrylamide (Cat. No. A-3553, Sigma)
- Anti-Rabbit IgG (H&L) (Cat. No. 31460ZZ, Pierce)
- Bis-acrylamide (Cat. No. M-7279, Sigma)
- Blotting paper (Cat. No. 170-3960, Bio-Rad, Hercules, CA)
- Bovine Serum Albumin (LP) (Cat. No. 100-350, Boehringer Mannheim,
- 10 Indianapolis, IN)
- Brilliant Blue R-250 (Cat. No. BP101-25, Fisher)
- Complete™ Mini (Cat. No. 1836153, Boehringer Mannheim)
- ECL Western Blotting Detection Reagents (Cat. No. RPN2106, Amersham  
Pharmacia Biotech, Piscataway, NJ)
- 15 • Ethyl alcohol (AAPER Alcohol and Paper Chemical Co., Shelbyville, KY)
- Gelplate Clean (Cat. No. 786-140RF, Geno Technology, Inc., St. Louis)
- Gelatin (Cat. No. G-2500, Sigma)
- Glycerol (Cat. No. BP229-1, Fisher)
- Glycine (Cat. No. G-8898, Sigma)
- 20 • Hybond ECL (Cat. No. RPN303D, Amersham Pharmacia Biotech)
- Lauryl Sulfate (SDS) (Cat. No. L-3771, Sigma)
- Methanol (Cat. No. BP1105-4, Fisher)
- M-Per (Cat. No. 78501, Pierce, Rockford, IL)
- Nalgene bottle top filters (Cat. No. 09-740-62B, Fisher)
- 25 • Nonfat dry milk (Kroger Co., Cincinnati, OH)
- Ponceau-S (Cat. No. P-07170, Sigma)
- Potassium phosphate (Cat. No. P-0662, Sigma)
- 2X SDS gel loading buffer (Cat. No. 750006, Research Genetics, Huntsville, AL)
- Size markers (Cat. No. M-3913, M-4038, M-3788, Sigma)
- 30 • Sodium azide (Cat. No. S227I-25, Fish)
- Sodium chloride (Cat. No. S271-3, Fisher)
- Sodium phosphate, Dibasic, Anhydrous (Cat. No. BP332-1, Fisher)

- t-amyl alcohol (Cat. No. A-16852, Sigma)
- TEMED (Cat. No. T-9281, Sigma)
- Trizma® Base (Cat. No. T-6066, Sigma)
- Tween-20 (Cat. No. BP337-500, Fisher)

5

## Solutions

- PBS – Phosphate Buffered Saline dissolved in distilled water
  - 136 mM NaCl
  - 2.7 mM KCl
  - 10 -10.1 mM  $\text{Na}_2\text{HPO}_4$
  - 1.8 mM  $\text{KH}_2\text{PO}_4$
- Acrylamide/Bis (30% T, 2.67% C) dissolved in distilled water
  - 4.1 M acrylamide
  - 51.9 mM N,N'-
- 15 • 1.5 M Tris-HCl (pH 8.8) dissolved in distilled water
- 0.5 M Tris-HCl (pH 6.8) dissolved in distilled water
- 10% SDS – dissolve 10 grams SDS in 100 mls distilled water
- Running Buffer
  - 24.8 mM Tris base
  - 20 -191.9 mM glycine
  - 3.5 mM SDS
- Towbin transfer buffer (pH 8.3) dissolved in distilled water
  - 20% methanol
  - 25 mM Tris
  - 25 -192 mM glycine
- Equilibrating buffer for gel drying, mixed in distilled water
  - 20% ethanol
  - 10% glycerol
- Gel staining solution dissolved in distilled water
  - 30 -0.3 mM Coomassie brilliant blue R-250
  - 40% methanol
  - 7% glacial acetic acid

- Gel destaining solution mixed in distilled water
  - 25% methanol
  - 7% glacial acetic acid
- 10% Tween®20 in PBS
- 5 • 5% Nonfat dry milk in PBS
- 0.2% BSA Blocking Buffer dissolved in PBS
  - 0.2% BSA
  - 0.1% gelatin
  - 0.05% Tween®20
- 10 • Wash Buffer
  - 0.05% Tween®20
  - 1X PBS

#### Equipment

- Microcentrifuge (Model 5415, Eppendorf)
- 15 • Power Pak 200 (Cat. No. 165-5052, Bio-Rad)
- Power Pak 3000 (Cat. No. 165-5056, Bio-Rad)
- Protean II xi Cell (Cat. No. 165-1813, Bio-Rad)
- Recirculating chiller (Cat. No. CFT33D115V, Neslab Instruments, Inc., Portsmouth, NH)
- 20 • 20-Well comb (Cat. No. 165-1867, Bio-Rad)
- pH Meter Corning 240 (Corning Science Products, Corning Glasswares, Corning, NY)
- Air Cadet vacuum pump (Cat. No. P-07530-50, Cole-Palmer Instruments Co., Chicago, IL)
- 25 • Tissue Tearor tissue homogenizer (Cat. No. 985370-07, BioSpec Products Inc., Bartlettsville, OK)

#### Methods

##### Sample Preparation

- 30       The following cell lines were used: 184B5, MCF7, OVCAR3, UACC62, HepG2, Colo205, UACC62, JURKAT, N-TERA2, MOLT4, Sw872. These cell lines are well known in the art. Descriptions of these cell lines are provided in Table 3, in



Perou, et al., Molecular portraits of human breast tumours, *Nature*, 406(6797):747-52, 2000, in Ross, D. T. et al. Systematic Variation in Gene Expression Patterns in Human Cancer Cell Lines. *Nature Genetics*, 24(3):227-35, 2000, and at the American Type Culture Collection Web site: <http://www.atcc.org>. Cell lines were maintained under standard growth conditions and in standard tissue culture media as appropriate for the particular cell line. Cells were collected according to standard techniques (e.g., trypsinization in the case of adherent cells), and the resulting cell suspension was prepared as follows:

-The cell suspension was pelleted by centrifugation at 3000 RPM for 10 minutes, and the supernatant was discarded.

-The pellet was washed with 1ml PBS, centrifuged at 10000 RPM for 10 minutes, and the supernatant was discarded.

-An appropriate volume of M-Per™ Reagent was added to the cell pellet and mixed gently for 10 minutes in an ice bath. The mixture was centrifuged at 13200 RPM for 15 minutes, and the supernatant was saved.

The protein concentration in the supernatant was measured according to standard techniques.

All samples were mixed at 1:1 with gel loading buffer and boiled for 5 minutes before loading.

#### SDS PAGE

Standard SDS-PAGE stacking and running gels were prepared and placed in an electrophoresis apparatus. After filling the upper and lower chambers with running buffers the samples (60  $\mu$ g/lane) were loaded. The inner core was placed in the lower chamber and the lid placed on top. The apparatus was connected to the power supply and recirculating system. The temperature setting was 10°C. The stacking gel was run at 14mA per gel for 1 hour. The separating gel was run at 0.58mA per gel per hour for 16 hours.

#### Transfer to nitrocellulose

After electrophoresis was complete, the gel was equilibrated in Towbin Buffer for 15-30 minutes. The assembly for transfer was as follows:

cathode  
pre-soaked blotting paper  
gel  
pre-wetted nitrocellulose  
5 pre-soaked blotting paper  
anode

The transfer was performed at 20V for 25 minutes, then 25V for 20 minutes. After the transfer was complete, the gel was stained with Coomassie and the blot was stained with Ponceau-S.

10

#### Western Blotting

##### Primary and secondary antibodies

All primary and secondary antibodies were diluted in 0.2% BSA blocking buffer. All incubation steps were done with gentle mixing.

- 15 Blots were blocked in 5% milk overnight at room temperature. The blots were rinsed with wash buffer before adding the primary antibody and incubating for two hours at room temperature. The primary antibodies were used at titers of 1:200, 1:500, and 1:1000 for anti-matrix metalloproteinase 14 and anti-cadherin EGF LAG seven-pass G-type receptor 2 and at 1:100 for anti-cadherin3.

- 20 One wash cycle was performed. One wash cycle consisted of:

Wash 5 min, rinse  
Wash 5 min, rinse  
Wash 10 min, rinse  
Wash 5 min, rinse

- 25 Wash 5 min, rinse

The secondary antibody was added and incubated for one hour at room temperature. One wash cycle was then performed.

##### Peptide Block

- 30 As a control to demonstrate the specificity of the antibody, in some experiments equal amounts (w/w) of peptide and antibody were added to 1/10 of the final volume of blocking buffer and incubated overnight at 4°C. The volume of blocking buffer was

then brought up to the final volume, and the membrane was incubated for an additional two hours at room temperature.

#### Developing

- 5 The blots were placed in a Ziploc® bag. Equal volumes of ECL western blotting detection reagents were mixed and distributed evenly over the blots. The blots were placed in an autoradiography cassette, covered with a piece of film, and exposed.

#### Results

- 10 Figure 4A shows a Western blot demonstrating expression of the cadherin3 polypeptide in various cell lines. The lane order is, from left to right: MCF-7, Colo205, UACC62, JURKAT, HEPG2, N-TERA2, MOLT4, Sw872. The primary antibody was used at a dilution of 1:100.

- 15 Figure 4B shows a Western blot demonstrating expression of the matrix metalloproteinase 14 polypeptide in various cell lines. The lane order is, from left to right: 184B5, MCF7, OVCAR3, UACC62, HepG2. The three images present identical blots in which the primary antibody was used at dilutions of 1:200 (left), 1:500 (middle), and 1:1000 (right).

- 20 Figure 4C shows a Western blot demonstrating expression of the cadherin EGF LAG seven-pass G-type receptor 2 polypeptide in various cell lines. The lane order is, from left to right: 184B5, MCF7, OVCAR3, UACC62, HepG2. The three images present identical blots in which the primary antibody was used at dilutions of 1:200 (left), 1:500 (middle), and 1:1000 (right).

- 25 For all three antibodies, the Western blots demonstrated that the antibodies bind to a polypeptide of the expected size. All of the basal marker polypeptides are expressed in a range of different cell types. While not wishing to be bound by any theory, inventors postulate that basal cells in tissues other than breast may express the basal marker genes, which may make them useful for identification of basal tumor subclasses for tumors other than breast tumors.

30

#### Example 12

Immunohistochemical Staining of Breast Tumor Arrays with Antibodies to

Cytokeratin 17 Demonstrates that Cytokeratin 17 Expression Correlates with Poor Outcome

Materials and Methods

5 Tissue arrays.

A total of 611 different paraffin embedded breast carcinoma samples were identified in the files in the Department of Pathology at the University of Basel, Women's hospital Rheinfelden, and the Kreiskrankenhaus Lorrach. The specimens were obtained from patients who underwent surgery in the period between 1985 and 10 1994. The histologic parameters for all cases were reviewed by a single pathologist (JT) and the histologic type and grade was determined for each case according to Elston and Ellis Elston CW, Ellis IO: Pathological prognostic factors in breast cancer. I. The value of histological grade in breast cancer: experience from a large study with long-term follow-up. *Histopathology* 1991, 19:403-10.

15 Follow-up was obtained for 553 cases and ranged from 1 to 151 months with a mean of 65.9 months. The use of these specimens and data for research purposes was approved by the Ethics Committee of the Basel University Hospital. Tissue arrays were constructed by obtaining 0.6 mm diameter tissue cores from each tumor and placing these cores in a new paraffin block in rows and columns as described in 20 Kononen J, Bubendorf L, Kallioniemi A, Barlund M, Schraml P, Leighton S, Torhorst J, Mihatsch MJ, Sauter G, Kallioniemi OP: Tissue microarrays for high-throughput molecular profiling of tumor specimens [see comments]. *Nat Med* 1998, 4:844-7 and in Schraml P, Kononen J, Bubendorf L, Moch H, Bissig H, Nocito A, Mihatsch MJ, Kallioniemi OP, Sauter G: Tissue microarrays for gene amplification surveys in many 25 different tumor types. *Clin Cancer Res* 1999, 5:1966-75.

Each of the 611 cases was sampled twice, once from the center of the tumor, and once from the periphery of the mass. Cores taken from the central area from each case were combined in one array and cores taken from the periphery of the tumor were combined in the other array.

30

Immunohistochemistry and scoring.

Double staining of normal breast epithelium in conventional paraffin sections

was performed by first staining luminal cells with CAM5.2 using alkaline phosphatase/fast blue staining and subsequently staining basal cells with CK17 using horse radish peroxidase/DAB staining.

Sections of arrays were stained with monoclonal antibodies specific for  
5 cytokeratin 17 (DAKO, clone E3, dilution 1:10) and cytokeratin 5/6 (Boehringer Mannheim, dilution 1:10) after antigen retrieval by microwaving in citrate buffer. Note that the anti-cytokeratin 5/6 antibody used herein detects both cytokeratins 5 and 6. However, cytokeratin 5 is likely to be the major antigen recognized by this antibody in breast basal cells. Staining results were scored as follows: 1 = invasive  
10 tumor cells present in tissue core and no staining seen; 2 = invasive tumor cells present and weak staining; 3 = invasive tumor cells present with strong staining. Only those cores containing tissue consistent with a diagnosis of invasive carcinoma were included in the outcome analysis. Cases that either had no tissue present on the array sections or cases in which the material sampled consisted of fat, fibrosis, normal  
15 breast glands, or in-situ carcinoma only, were omitted from further analysis. Cytokeratins often showed only focal staining of tumor cells within the tissue array cores or conventional paraffin sections. To account for the focal expression of CK17 and CK5/6, each of the 612 breast tumors was analyzed 4 times: with anti-CK17 and anti-CK5/6 antibody on the "central sample" array, and with anti-CK17 and anti-  
20 CK5/6 antibody on the "peripheral sample" array. A breast tumor sample was scored as staining positive for the keratins if infiltrating carcinoma in one or more of the cores from that sample reacted with either of the antibodies.

To aid in recognizing infiltrating carcinoma in the core samples, sections of each array were also stained with an anti-cytokeratin antibody mix reacting with  
25 cytokeratins 8 and 18 (CAM5.2, Becton & Dickinson, dilution 1:20) after antigen unmasking by trypsin digestion to highlight invasive carcinoma cells.

#### Statistical analysis

Univariate survival analysis based upon gene expression defined subgroups of  
30 patients was performed by Kaplan-Meier statistics using WinSTAT software (www.winstat.com). Subsequent multivariate analyses were performed using Cox's proportional hazards model for survival data (Cox: Regression models and life tables.

*Journal Royal Statistical Society* 1972, 74:187-220).

## Results

### Basal keratin staining in normal breast and breast carcinoma.

5        In normal breast, antibodies that bind to cytokeratin17 (CK17) and cytokeratin  
5/6 (CK5/6) stain the basal layer of breast glandular epithelium while antibodies that  
bind to cytokeratins 8 and 18 stain luminal cells (figures 3C and 3D). Whole paraffin  
sections of breast carcinoma showed that cytokeratin 17 and 5/6 expression in paraffin  
embedded tissue when present was focal (Figures 3E and 3F) with often less than 10%  
10 of tumor cells reacting. In an attempt to study further the focal reactivity of the  
monoclonal antibodies against the basal type cytokeratins, and to attempt to improve  
the reliability of this test, rabbit antisera against CK17 were raised as described in  
Example 12. This serum was tested on a separate tissue array with over 300 hundred  
breast samples. The antiserum and the monoclonal antibody against CK17 showed  
15 highly similar reactivity with epithelial cells in the breast cores. Both reagents stained  
the same fraction of tumor cells suggesting that neither is a significantly better  
reagent. These results suggest that the focal reactivity seen with monoclonal anti-  
CK17 was not due to weak reactivity of the monoclonal antibody but indicates that  
within a tumor only a subset of tumor cells express these basal keratins, reinforcing  
20 the need for alternative basal markers.

### Basal keratin staining on breast carcinoma tissue arrays.

Since the size of sample examined in tissue array cores is significantly smaller  
than on conventional samples, there was a concern that the focal reactivity of basal  
25 type cytokeratins might cause positive tumors to be missed. We decided to maximize  
the chance of detecting basal keratin expression in the breast tumors on the arrays by  
staining them with monoclonal antibodies directed at CK5/6 and CK17 and by  
examining arrays made with cores taken from central and peripheral areas of the  
tumors. By combining the results from the "central" array and the "peripheral" array,  
30 532 tumors were available for CK17 analysis, 535 were available for CK5/6 analysis,  
and 564 were available for either CK17 or CK5/6. The remainder of the tumors  
represented on the arrays were either lost in transfer during sectioning of the tissue

arrays block, or showed no convincing invasive carcinoma on the core section. Of the cases available for scoring, 75 and 63 tumors scored positive (either weak or strongly) for CK17 and CK5/6, respectively. By combining the results from the stains for CK17 and CK5/6, 90 cases (16%) out of the 564 tumors examined reacted with either CK17  
5 and/or CK5/6. Follow-up data were available for 505 of the 564 cases on which CK staining data was obtained. The follow-up period ranged from 1 to 151 months with a mean of 66.1 months.

Kaplan-Meier survival analysis on all patients with follow-up showed that the absence of cytokeratin 17 and cytokeratin 5 is associated with a significantly better  
10 prognosis than the presence of either of these cytokeratins (figure 5A,  $p=0.012$ ). In the group of 229 patients with known lymph node metastases, the expression of CK17 and CK5/6 had no predictive value. In contrast, in the group of 245 patients without lymph node metastases, CK17 and/or CK5/6 expression was significantly associated with shorter survival (figure 5B,  $p=0.006$ ). The percentage of basal keratin positive  
15 tumors was similar in patients with and without lymph node metastases. Multivariate analysis on all patients taken together showed that the prognostic association of basal cytokeratin expression with poor outcome was not independent from tumor size, LN status and histologic grade. However when analyzed on LN-negative tumors alone, the expression of basal cytokeratins is not only a statistically significant  
20 prognosticator, but is also independent of tumor size, tumor grade, her2neu status, ER status, and GATA3 status. The results clearly demonstrate the utility of cytokeratin17 as a marker for a subclass of tumors with a poor clinical outcome while also highlighting the difficulties associated with use of anti-cytokeratin17 antibodies.

25 Her2neu, estrogen receptor and GATA-3 staining on breast carcinoma arrays

To further confirm the accuracy of correlations between immunohistochemistry results and clinical data obtained using tissue arrays, sections of the arrays made with peripheral cores were stained for a variety of other proteins known or suspected to be associated with a good or a poor clinical outcome, for  
30 example estrogen receptor and Her2neu. As expected, expression of estrogen receptors was associated with a better clinical outcome. This finding was independent of BRE grade, LN status and size. In contrast, Her2neu expression was associated

with a poor prognosis. These results are compatible with published data and are similar to those of two additional studies performed on the same breast tumor arrays. (Bucher C, Torhorst J, Kononen J, Haas P, Schraml L, Bubendorf L, Zuber M, Kochli OR, Mross F, Dieterich H, Askaa J, Godtfredsen SE, Seelig S, Moch H, Mihatsch M, Kallioniemi O, Sauter G: Prognostic significance of HER-2 amplification and overexpression in breast cancer: Methodological comparison of fluorescence *in situ* hybridization and immunohistochemistry using tissue microarrays of 611 primary breast cancers. in press, 2001; Torhorst J, Bucher C, Kononen J, Haas P, Zuber M, Kochli OR, Mross F, Dieterich H, Moch H, Mihatsch M, Kallioniemi O, Sauter G: Tissue microarrays for rapid linking of molecular changes to clinical endpoints. in press. 2001 )

Sections of the arrays were also stained for GATA-binding protein 3, an antigen thought to be co-expressed with estrogen receptors on the mRNA and protein level (Hoch RV, Thompson DA, Baker RJ, Weigel RJ: GATA-3 is expressed in association with estrogen receptor in breast cancer. *International Journal of Cancer* 1999, 84:122-8). The expression for GATA-3 was associated with a good clinical outcome and had a high correlation (Chi-square=720.3 on 9 degrees of freedom) with estrogen receptor expression. The staining results for estrogen receptor, GATA-3 and her2neu confirm findings from prior studies, and also function as an independent validation of tissue array-based studies.

Tissue arrays present a number of advantages for tumor analysis. Analysis of large numbers of tissue sections using conventional techniques is laborious and expensive. An added disadvantage is that slides are stained in different batches, which can introduce variation in staining intensity. In addition, the analysis of large number of conventional glass slides makes comparisons between tumor samples difficult. Many of these problems are circumvented by the new technique of tissue arrays. This approach allows the efficient analysis of antibody reactivity on large numbers of tumors that are stained together on the same slide.

The tissue array studies reported here allowed separation of the patients groups into patients with lymph node metastasis and those without. In patients with metastatic disease to the lymph nodes, the expression of the basal cytokeratins was not associated with a significant difference in clinical outcome. However, in lymph node



negative patients the reactivity for these markers was associated with a poor prognosis independent of tumor size, tumor grade, or immunostain reactivity for ER, her2neu or GATA3. While not wishing to be bound by any theory, taken together with the gene array data, these findings support the idea that anti-cytokeratin antibodies may  
5 identify a different type of tumor rather than just another prognostic marker and suggest the possibility that these tumors are derived from basal cells and not from luminal cells.

Due to the focal and often weak reactivity of monoclonal antibodies against basal type keratins, the interpretation of staining results for these markers can be  
10 difficult. The intensity of staining with these markers is not comparable with other markers currently used in diagnosis of breast carcinoma, such as estrogen receptor and her2neu, a feature that prevents their use in clinical settings. We attempted to generate new reagents in the hope that they would have more robust IHC staining characteristics. Analysis of over 300 breast carcinoma samples in a separate array  
15 showed that the number of cells and the pattern of focal reactivity for the antiserum against CK17 and the intensity of staining were similar to that seen with the monoclonal antibodies. This indicates that the basal keratins are indeed only focally expressed and that the low numbers of cells stained with antibodies is not due to a weak reactivity of the monoclonal antibodies with the protein.

20 The studies presented here show that basal epithelial cytokeratin positive tumors occur with a significant frequency (>10%) and are associated with a poor prognosis. Patients with metastatic breast carcinoma to the axillary lymph nodes are at high risk for recurrence and most receive adjuvant therapy. The situation for node negative patients is less clear; depending on the size and grade of the tumor, the  
25 reported recurrence rate varies between 5-30%. In lymph node negative patients, the clinical decision whether to give or withhold systemic therapy thus is a difficult one and hence it is in this group of patients that the need for new prognostic markers is the greatest. The relative size of this group of patients is also expected to increase, due to continuing advances in screening and diagnostic techniques that identify increasingly  
30 smaller breast tumors. Most of these smaller tumors have not metastasized to the "sentinel" lymph node. This group of patients, therefore, has to make a difficult choice between a variety of additional therapies, such as: lumpectomy, mastectomy,

chemotherapy, radiation therapy, or hormonal therapy in the absence of reliable guidance from pathologic characteristics of their tumor. The cytokeratins 17 and 5/6 appear to detect a subcategory of tumors that behave poorly and may help in treatment decisions for node-negative breast carcinoma patients. These results suggest that patients that present with basal epithelial cytokeratin expressing tumors may be candidates for more aggressive treatment procedures and also for alternate therapies directed against tumors with this particular biology.

### Example 13

#### Immunohistochemical Staining of Normal Breast and Breast Tumor Samples in Tissue Arrays with Antibodies to Basal Marker Polypeptides

##### Materials and Methods

Tissue arrays including normal breast and breast tumor samples were prepared as described in Example 12. Monoclonal antibody to cytokeratin 5/6 (Boehringer Mannheim, Inc.) and polyclonal, affinity purified, anti-peptide antibodies to cadherin3, cadherin EGF LAG seven-pass G-type receptor 2, and matrix metalloproteinase 14 prepared as described in Example 10 were used to perform immunohistochemical staining using the DAKO Envision+, Peroxidase IHC kit (DAKO Corp., Carpinteria, CA) with DAB substrate according to the manufacturer's instructions.

##### Results

Figure 6 shows antibody staining of normal breast tissue cores. Figure 6A shows staining with anti-cytokeratin 5/6 monoclonal antibody (ck5/6). Figures 6B, 6C, and 6D show staining with anti-cadherin 3 polyclonal antibody (s0158), anti-EGF LAG seven-pass G-type receptor 2 polyclonal antibody (s0137), and anti-metalloproteinase 14 polyclonal antibody (s0144), respectively, on sections from a core derived from the same patient. The brown areas represent prominent staining of the basal layer in the two-cell layered epithelium lining the mammary gland lumen. These results confirm that the staining pattern of antibodies to the basal marker polypeptides identified herein is comparable to that of antibodies to cytokeratin 17 in

terms of the cell type stained and the ability to distinguish between basal and luminal cells in the normal mammary gland.

Figure 7 shows antibody staining of breast cancer tissue cores. Figure 7A shows antibody staining with anti-cytokeratin 5/6 monoclonal antibody (cd5/6).

- 5 Figures 7B and 7C show staining with anti-EGF LAG seven-pass G-type receptor 2 polyclonal antibody (s0137) and anti-cadherin 3 polyclonal antibody (s0158), respectively. The brown areas represent prominent staining of the epithelial cells within tumor tissue. Note the loss of normal breast glandular architecture consistent with the diagnosis of carcinoma.

10

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10

## CLAIMS

We claim:

1. A method of classifying a tumor comprising the steps of:

providing a tumor sample;

detecting expression or activity of a gene encoding the polypeptide of SEQ ID

NO:1 in the sample; and

classifying the tumor as belonging to a tumor subclass based on the results of  
the detecting step.

2. A method of classifying a tumor comprising the steps of:

providing a tumor sample;

detecting expression or activity of a gene encoding the polypeptide of SEQ ID

NO:2 in the sample; and

classifying the tumor as belonging to a tumor subclass based on the results of  
the detecting step.

3. A method of classifying a tumor comprising the steps of:

providing a tumor sample;

detecting expression or activity of a gene encoding the polypeptide of SEQ ID

NO:3 in the sample; and

classifying the tumor as belonging to a tumor subclass based on the results of  
the detecting step.

4. A method of classifying a tumor comprising the steps of:

providing a tumor sample;

detecting expression or activity of at least two genes selected from the group  
consisting of: a gene encoding the polypeptide of SEQ ID NO:1, SEQ ID NO:2, and  
SEQ ID NO:3 in the sample; and

classifying the tumor as belonging to a tumor subclass based on the results of  
the detecting step.

1

2 5. The method of any of claims 1, 2, 3, or 4, wherein the detecting step comprises  
3 detecting the polypeptide or polypeptides.

4

5 6. The method of claim 5, wherein the polypeptide is detected by performing  
6 immunohistochemical analysis on the sample using an antibody that specifically binds  
7 to the polypeptide.

8

9 6a. The method of claim 5, wherein the polypeptide is detected by performing an  
10 ELISA assay using an antibody that specifically binds to the polypeptide.

11

12 6b. The method of claim 5, wherein the polypeptide is detected using an antibody  
13 array comprising an antibody that specifically binds to the polypeptide.

14

15 6c. The method of claim 5, wherein the detecting step comprises:  
16 detecting modification of a substrate by the polypeptide.

17

18 7. The method of any of claims 1, 2, 3, or 4, wherein classifying a tumor comprises:  
19 stratifying a subject having the tumor for a clinical trial.

20

21 8. The method of claim 7, wherein the tumor is a breast tumor.

22

23 9. The method of any of claims 1, 2, 3, or 4, wherein the tumor is a breast tumor and  
24 the tumor subclass is a basal tumor subclass.

25

26 1a. The method of claim 1, further comprising:  
27 providing diagnostic, prognostic, or predictive information based on the  
28 classifying step.

29

30 2a. The method of claim 2, further comprising:  
31 providing diagnostic, prognostic, or predictive information based on the  
32 classifying step.

1

2 3a. The method of claim 3, further comprising:

3 providing diagnostic, prognostic, or predictive information based on the  
4 classifying step.

5

6 4a. The method of claim 4, further comprising:

7 providing diagnostic, prognostic, or predictive information based on the  
8 classifying step.

9

10 5a. The method of claim 5, further comprising:

11 providing diagnostic, prognostic, or predictive information based on the  
12 classifying step.

13

14 6aa. The method of claim 5a, wherein the polypeptide is detected by performing  
15 immunohistochemical analysis on the sample using an antibody that specifically binds  
16 to the polypeptide.

17

18 6ab. The method of claim 5a, wherein the polypeptide is detected by performing an  
19 ELISA assay using an antibody that specifically binds to the polypeptide.

20

21 6ac. The method of claim 5a, wherein the polypeptide is detected using an antibody  
22 array comprising an antibody that specifically binds to the polypeptide.

23

24 6ad. The method of claim 5a, wherein the detecting step comprises:

25 detecting modification of a substrate by the polypeptide.

26

27 9a. The method of any of claims 1a, 2a, 3a, or 4a, wherein the tumor is a breast tumor  
28 and the tumor subclass is a basal tumor subclass.

29

30 1g. The method of claim 1, further comprising:

31 selecting a treatment based on the classifying step.

32

- 1 2g. The method of claim 2, further comprising:  
2 selecting a treatment based on the classifying step.  
3
- 4 3g. The method of claim 3, further comprising:  
5 selecting a treatment based on the classifying step.  
6
- 7 4g. The method of claim 4, further comprising:  
8 selecting a treatment based on the classifying step.  
9
- 10 5g. The method of claim 5, further comprising:  
11 selecting a treatment based on the classifying step.  
12
- 13 6ag. The method of claim 5g, wherein the polypeptide is detected by performing  
14 immunohistochemical analysis on the sample using an antibody that specifically binds  
15 to the polypeptide.  
16
- 17 6bg. The method of claim 5g, wherein the polypeptide is detected by performing an  
18 ELISA assay using an antibody that specifically binds to the polypeptide.  
19
- 20 6cg. The method of claim 5g, wherein the polypeptide is detected using an antibody  
21 array comprising an antibody that specifically binds to the polypeptide.  
22
- 23 6dg. The method of claim 5g, wherein the detecting step comprises:  
24 detecting modification of a substrate by the polypeptide.  
25
- 26 9g. The method of any of claims 1g, 2g, 3g, or 4g, wherein the tumor is a breast tumor  
27 and the tumor subclass is a basal tumor subclass.  
28
- 29 1m. A method of testing a subject comprising the steps of:  
30 providing a sample isolated from a subject;  
31 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
32 NO:1 in the sample; and

1 providing diagnostic, prognostic, or predictive information based on the  
2 detecting step.

3

4 2m. A method of testing a subject comprising the steps of:

5 providing a sample isolated from a subject;

6 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
7 NO:2 in the sample; and

8 providing diagnostic, prognostic, or predictive information based on the  
9 detecting step.

10

11 3m. A method of testing a subject comprising the steps of:

12 providing a sample isolated from a subject;

13 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
14 NO:3 in the sample; and

15 providing diagnostic, prognostic, or predictive information based on the  
16 detecting step.

17

18 4m. A method of testing a subject comprising the steps of:

19 providing a sample isolated from the subject;

20 detecting expression or activity of at least two genes selected from the group  
21 consisting of: a gene encoding the polypeptide of SEQ ID NO:1, SEQ ID NO:2, and  
22 SEQ ID NO:3 in the sample; and

23 providing diagnostic, prognostic, or predictive information based on the  
24 detecting step.

25

26 5m. The method of any of claims 1m, 2m, 3m, or 4m, wherein the detecting step  
27 comprises detecting the polypeptide or polypeptides.

28

29 6m. The method of claim 5m, wherein the polypeptide is detected by performing  
30 immunohistochemical analysis on the sample using an antibody that specifically binds  
31 to the polypeptide.

32

1 6ma. The method of claim 5m, wherein the polypeptide is detected by performing an  
2 ELISA assay using an antibody that specifically binds to the polypeptide.

3  
4 6mb. The method of claim 5m, wherein the polypeptide is detected using an antibody  
5 array comprising an antibody that specifically binds to the polypeptide.

6  
7 6mc. The method of claim 5m, wherein the detecting step comprises:  
8 detecting modification of a substrate by the polypeptide.

9  
10 9m. The method of any of claims 1m, 2m, 3m, or 4m, wherein the sample is selected  
11 from the group consisting of:

12 a blood sample, a urine sample, a serum sample, an ascites sample, a saliva  
13 sample, a cell, and a portion of tissue.

14  
15 10m. The method of any of claims 1m, 2m, 3m, or 4m, wherein the sample is a tumor  
16 sample.

17  
18 11m. The method of claim 10m, wherein the tumor sample is a breast tumor sample.

19  
20 1r. A method of testing a subject comprising the steps of:

21 providing a sample isolated from a subject;

22 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
23 NO:1 in the sample; and

24 stratifying the subject for a clinical trial based on the detecting step.

25  
26 2r. A method of testing a subject comprising the steps of:

27 providing a sample isolated from a subject;

28 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
29 NO:2 in the sample; and

30 stratifying the subject for a clinical trial based on the detecting step.

31  
32 3r. A method of testing a subject comprising the steps of:

- 1 providing a sample isolated from a subject;  
2 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
3 NO:3 in the sample; and  
4 stratifying the subject for a clinical trial based on the detecting step.  
5
- 6 4r. A method of testing a subject comprising the steps of:  
7 providing a sample isolated from the subject;  
8 detecting expression or activity of at least two genes selected from the group  
9 consisting of: a gene encoding the polypeptide of SEQ ID NO:1, SEQ ID NO:2, and  
10 SEQ ID NO:3 in the sample; and  
11 stratifying the subject for a clinical trial based on the detecting step.  
12
- 13 5r. The method of any of claims 1r, 2r, 3r, or 4r, wherein the detecting step comprises  
14 detecting the polypeptide or polypeptides.  
15
- 16 6r. The method of claim 5r, wherein the polypeptide is detected by performing  
17 immunohistochemical analysis on the sample using an antibody that specifically binds  
18 to the polypeptide..  
19
- 20 6ra. The method of claim 5r, wherein the polypeptide is detected by performing an  
21 ELISA assay using an antibody that specifically binds to the polypeptide.  
22
- 23 6rb. The method of claim 5r, wherein the polypeptide is detected using an antibody  
24 array comprising an antibody that specifically binds to the polypeptide.  
25
- 26 6rc. The method of claim 5r, wherein the detecting step comprises:  
27 detecting modification of a substrate by the polypeptide.  
28
- 29 9r. The method of any of claims 1r, 2r, 3r, or 4r, wherein the sample is selected from  
30 the group consisting of:  
31 a blood sample, a urine sample, a serum sample, an ascites sample, a saliva  
32 sample, a cell, and a portion of tissue.



1

2 10r. The method of any of claims 1r, 2r, 3r, or 4r, wherein the sample is a tumor  
3 sample.

4

5 11r. The method of claim 10r, wherein the tumor sample is a breast tumor sample.

6

7 1q. A method of testing a subject comprising the steps of:

8 providing a sample isolated from a subject;

9 detecting expression or activity of a gene encoding the polypeptide of SEQ ID

10 NO:1 in the sample; and

11 selecting a treatment based on the detecting step.

12

13 2q. A method of testing a subject comprising the steps of:

14 providing a sample isolated from a subject;

15 detecting expression or activity of a gene encoding the polypeptide of SEQ ID

16 NO:2 in the sample; and

17 selecting a treatment based on the detecting step.

18

19 3q. A method of testing a subject comprising the steps of:

20 providing a sample isolated from a subject;

21 detecting expression or activity of a gene encoding the polypeptide of SEQ ID

22 NO:3 in the sample; and

23 selecting a treatment based on the detecting step.

24

25 4q. A method of testing a subject comprising the steps of:

26 providing a sample isolated from the subject;

27 detecting expression or activity of at least two genes selected from the group

28 consisting of: a gene encoding the polypeptide of SEQ ID NO:1, SEQ ID NO:2, and

29 SEQ ID NO:3 in the sample; and

30 selecting a treatment based on the detecting step.

31

- 1 5q. The method of any of claims 1q, 2q, 3q, or 4q, wherein the detecting step  
2 comprises detecting the polypeptide or polypeptides.  
3
- 4 6q. The method of claim 5q, wherein the polypeptide is detected by performing  
5 immunohistochemical analysis on the sample using an antibody that specifically binds  
6 to the polypeptide.  
7
- 8 6qa. The method of claim 5q, wherein the polypeptide is detected by performing an  
9 ELISA assay using an antibody that specifically binds to the polypeptide.  
10
- 11 6qb. The method of claim 5q, wherein the polypeptide is detected using an antibody  
12 array comprising an antibody that specifically binds to the polypeptide.  
13
- 14 6qc. The method of claim 5q, wherein the detecting step comprises:  
15 detecting modification of a substrate by the polypeptide.  
16
- 17 9q. The method of any of claims 1q, 2q, 3q, or 4q, wherein the sample is selected  
18 from the group consisting of:  
19 a blood sample, a urine sample, a serum sample, an ascites sample, a saliva  
20 sample, a cell, and a portion of tissue.  
21
- 22 10m. The method of any of claims 1m, 2m, 3m, or 4m, wherein the sample is a tumor  
23 sample.  
24
- 25 11m. The method of claim 10m, wherein the tumor sample is a breast tumor sample.  
26
- 27 20. An antibody that specifically binds to an epitope found in a polypeptide whose  
28 amino acid sequence the amino acid sequence of SEQ ID NO:1, and wherein the  
29 antibody recognizes basal cells in normal mammary lactation glands.  
30
- 31 21. The antibody of claim 21, wherein the antibody distinguishes basal cells from  
32 luminal cells in normal mammary lactation glands.

- 1
- 2 22. The antibody of claim 20, wherein the antibody is a monoclonal antibody.
- 3
- 4 23. The antibody of claim 20, wherein the antibody is a polyclonal antibody.
- 5
- 6 24. The antibody of claim 20, wherein the antibody recognizes an epitope found in a
- 7 peptide having an amino acid sequence selected from the group consisting of SEQ ID
- 8 NO:4, SEQ ID NO:5, and SEQ ID NO:6.
- 9
- 10 25. An antibody that specifically binds to an epitope found in a polypeptide whose
- 11 amino acid sequence comprises the amino acid sequence of SEQ ID NO:2, and
- 12 wherein the antibody recognizes basal cells in normal mammary lactation glands.
- 13
- 14 26. The antibody of claim 25, wherein the antibody distinguishes basal cells from
- 15 luminal cells in normal mammary lactation glands.
- 16
- 17 27. The antibody of claim 25, wherein the antibody is a monoclonal antibody.
- 18
- 19 28. The antibody of claim 25, wherein the antibody is a polyclonal antibody.
- 20
- 21 29. The antibody of claim 25, wherein the antibody recognizes an epitope found in a
- 22 peptide having an amino acid sequence selected from the group consisting of SEQ ID
- 23 NO:7, SEQ ID NO:8, and SEQ ID NO:9.
- 24
- 25 30. An antibody that specifically binds to an epitope found in a polypeptide whose
- 26 amino acid sequence comprises the amino acid sequence of SEQ ID NO:3, and
- 27 wherein the antibody recognizes basal cells in normal mammary lactation glands.
- 28
- 29 31. The antibody of claim 30, wherein the antibody distinguishes basal cells from
- 30 luminal cells in normal mammary lactation glands.
- 31
- 32 32. The antibody of claim 30, wherein the antibody is a monoclonal antibody.

1

2 33. The antibody of claim 30, wherein the antibody is a polyclonal antibody.

3

4 34. The antibody of claim 30, wherein the antibody recognizes an epitope found in a  
5 peptide having an amino acid sequence selected from the group consisting of SEQ ID  
6 NO:10, SEQ ID NO:11, and SEQ ID NO:12.

7

8 38. A kit for tumor diagnosis comprising:

9 one or more of the antibodies of any of claims 20 through 34;

10 instructions for use of the kit; and

11 a control slide comprising breast tissue samples for testing reagents in the kit.

12

13 40. A method of testing a compound or a combination of compounds for activity  
14 against tumors comprising steps of:

15 obtaining or providing tumor samples taken from subjects who have been  
16 treated with the compound or combination of compounds, wherein the tumors fall  
17 within a tumor subclass;

18 comparing the response rate of tumors that fall within the tumor subclass and  
19 have been treated with the compound with the overall response rate of tumors that  
20 have been treated with the compound or combination of compounds or with the  
21 response rate of tumors that do not fall within the subclass and have been treated with  
22 the compound or combination of compounds; and

23 identifying the compound or combination of compounds as having selective  
24 activity against tumors in the tumor subclass if the response rate of tumors in the  
25 subclass is greater than the overall response rate or the response rate of tumors that do  
26 not fall within the subclass.

27

28 41. The method of claim 40, wherein the tumors are breast tumors.

29

30 42. The method of claim 41, wherein the tumor subclass is a basal tumor subclass.

31

- 1 43. The method of claim 41, wherein the tumors are classified according to the  
2 method of any of claims 1, 2, 3, or 4.  
3
- 4 44. The method of claim 41, wherein the tumor subclass is a basal tumor subclass and  
5 wherein a tumor is identified as belonging to the tumor subclass based on evidence of  
6 expression of one or more basal marker genes in the sample.  
7
- 8 45. The method of claim 44, wherein evidence of expression comprises presence of a  
9 protein encoded by a basal marker gene, and wherein the evidence of expression is  
10 obtained using an antibody that binds to the protein.  
11
- 12 46. The method of claim 45, wherein the basal marker gene encodes a polypeptide  
13 comprising the amino acid sequence of SEQ ID NO:1.  
14
- 15 47. The method of claim 45, wherein the basal marker gene encodes a polypeptide  
16 comprising the amino acid sequence of SEQ ID NO:2.  
17
- 18 48. The method of claim 45, wherein the basal marker gene encodes a polypeptide  
19 comprising the amino acid sequence of SEQ ID NO:3.  
20
- 21 49. The method of claim 40, wherein the samples are present within a tissue array.  
22
- 23 60. A method of testing a compound or a combination of compounds for activity  
24 against tumors comprising steps of:  
25       treating subjects in need of treatment for tumors with the compound or  
26 combination of compounds;  
27       comparing the response rate of tumors that fall within a tumor subclass with  
28 the overall response rate of tumors or with the response rate of tumors that do not fall  
29 within the subclass; and  
30       identifying the compound or combination of compounds as having selective  
31 activity against tumors in the tumor subclass if the response rate of tumors in the

1 subclass is greater than the overall response rate or the response rate of tumors that do  
2 not fall within the subclass.

3

4 61. The method of claim 60, further comprising the steps of:

5 providing tumor samples from subjects in need of treatment for tumors;  
6 determining whether the tumors fall within a tumor subclass; and  
7 stratifying the subjects based on the results of the determining step prior to  
8 performing the treating step.

9

10 62. The method of claim 60, further comprising the steps of:

11 providing tumor samples from subjects in need of treatment for tumors;  
12 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
13 NO:1 in the samples; and  
14 stratifying the subjects based on the results of the detecting step prior to  
15 performing the the treating step.

16

17 63. The method of claim 60, further comprising the steps of:

18 providing tumor samples from subjects in need of treatment for tumors;  
19 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
20 NO:2 in the samples; and  
21 stratifying the subjects based on the results of the detecting step prior to  
22 performing the treating step.

23

24 64. The method of claim 60, further comprising the steps of:

25 providing tumor samples from subjects in need of treatment for tumors;  
26 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
27 NO:3 in the samples; and  
28 stratifying the subjects based on the results of the detecting step prior to  
29 performing the treating step.

30

31 65. The method of claim 60, further comprising the steps of:

32 providing tumor samples from subjects in need of treatment for tumors;

1 detecting expression or activity of at least two genes, wherein each of the  
2 genes encodes a polypeptide whose sequence comprises a sequence selected from the  
3 group consisting of SEQ ID NO:1, SEQ ID NO:2, and SEQ ID NO:3 in the samples;  
4 and

5 stratifying the subjects based on the results of the detecting step prior to  
6 performing the treating step.

7

8 80. A method of testing a compound or a combination of compounds for activity  
9 against tumors comprising steps of:

10 treating subjects in need of treatment for tumors with the compound or  
11 combination of compounds or with an alternate compound, wherein the tumors fall  
12 within a tumor subclass;

13 comparing the response rate of tumors treated with the compound or  
14 combination of compounds with the response rate of tumors treated with the alternate  
15 compound; and

16 identifying the compound or combination of compounds as having superior  
17 activity against tumors in the tumor subclass, as compared with the alternate  
18 compound, if the response rate of tumors treated with the compound or combination  
19 of compounds is greater than the response rate of tumors treated with the alternate  
20 compound.

21

22 81. The method of claim 80, further comprising the steps of:

23 providing tumor samples from subjects in need of treatment for tumors;

24 determining whether the tumors fall within a tumor subclass; and

25 stratifying the subjects based on the results of the determining step prior to  
26 performing the treating step.

27

28 82. The method of claim 80, further comprising the steps of:

29 providing tumor samples from subjects in need of treatment for tumors;

30 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
31 NO:1 in the samples; and

1 stratifying the subjects based on the results of the detecting step prior to  
2 performing the treating step.

3  
4 83. The method of claim 80, further comprising the steps of:

5 providing tumor samples from subjects in need of treatment for tumors;  
6 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
7 NO:2 in the samples; and  
8 stratifying the subjects based on the results of the detecting step prior to  
9 performing the treating step.

10

11 84. The method of claim 80, further comprising the steps of:

12 providing tumor samples from subjects in need of treatment for tumors;  
13 detecting expression or activity of a gene encoding the polypeptide of SEQ ID  
14 NO:3 in the samples; and  
15 stratifying the subjects based on the results of the detecting step prior to  
16 performing the treating step.

17

18 85. The method of claim 80, further comprising the steps of:

19 providing tumor samples from subjects in need of treatment for tumors;  
20 detecting expression or activity of at least two genes, wherein each of the  
21 genes encodes a polypeptide whose sequence comprises a sequence selected from the  
22 group consisting of SEQ ID NO:1, SEQ ID NO:2, and SEQ ID NO:3 in the samples;  
23 and

24 stratifying the subjects based on the results of the detecting step prior to  
25 performing the treating step.

26

27 86. The method of any of claims 80, 81, 82, 83, 84, or 85, wherein the alternate  
28 compound is a compound approved by the U.S. Food and Drug administration for  
29 treatment of tumors.

30

31 100. A method of treating a subject comprising steps of:

32 identifying a subject as having a tumor in a basal tumor subclass; and



1 administering a compound identified according to the method of any of claims  
2 40, 41, 42, or 45 to the subject.

3

4 101. A method of treating a subject comprising steps of:  
5 identifying a subject as having a tumor in a basal tumor subclass; and  
6 administering a compound identified according to the method of any of claims  
7 60, 61, 62, 63, 64, or 65 to the subject.

8

9 103. A method of treating a subject comprising steps of:  
10 identifying a subject as having a tumor in a basal tumor subclass; and  
11 administering a compound identified according to the method of any of claims  
12 80, 81, 82, 83, 84, or 85 to the subject.

13

14 120. A method of treating a subject comprising steps of:  
15 providing a subject in need of treatment for cancer;  
16 administering to the subject an antibody that specifically binds to a  
17 polypeptide having an amino acid sequence comprising the sequence of SEQ ID  
18 NO:1.

19

20 121. A method of treating a subject comprising steps of:  
21 providing a subject in need of treatment for a tumor;  
22 administering to the subject an antibody that specifically binds to a  
23 polypeptide having an amino acid sequence comprising the sequence of SEQ ID  
24 NO:2.

25

26 122. A method of treating a subject comprising steps of:  
27 providing a subject in need of treatment for a tumor;  
28 administering to the subject an antibody that specifically binds to a  
29 polypeptide having an amino acid sequence comprising the sequence of SEQ ID  
30 NO:3.

31

1 130. The method of any of claims 120, 121, or 122, wherein the tumor is a breast  
2 tumor, and wherein the method further comprises the step of:

3 identifying the tumor as belonging to a basal tumor subclass.  
4

5 131. The method of any of claims 120, 121, or 122, wherein the antibody is  
6 conjugated with a toxic molecule.  
7

8 140. A method of treating a subject comprising steps of:

9 providing a subject in need of treatment for cancer;

10 administering to the subject a compound that activates or inhibits a gene that  
11 encodes an amino acid having a sequence comprising the sequence of SEQ ID NO:1,  
12 or that activates or inhibits an expression product of the gene.  
13

14 141. A method of treating a subject comprising steps of:

15 providing a subject in need of treatment for a tumor;

16 administering to the subject a compound that activates or inhibits a gene that  
17 encodes an amino acid having a sequence comprising the sequence of SEQ ID NO:2,  
18 or that activates or inhibits an expression product of the gene.  
19

20 142. A method of treating a subject comprising steps of:

21 providing a subject in need of treatment for a tumor;

22 administering to the subject a compound that activates or inhibits a gene that  
23 encodes an amino acid having a sequence comprising the sequence of SEQ ID NO:3,  
24 or that activates or inhibits an expression product of the gene.  
25

26 150. A composition comprising:

27 two or more compounds identified according to the method of any of claims  
28 40, 60, or 80.  
29

30 151. A pharmaceutical composition comprising:

31 the composition of claim 150; and

32 a pharmaceutically acceptable carrier.

1

2 160. A composition comprising:

3 a compound identified according to the method of any of claims 40, 60, or 80;

4 a second compound, wherein the second compound is approved by the U.S.

5 Food and Drug administration for the treatment of cancer or has shown potential

6 efficacy against cancer in pre-clinical studies.

7

8 161. A pharmaceutical composition comprising:

9 the composition of claim 160; and

10 a pharmaceutically acceptable carrier.

11

**FIGURE 1A**

Sequence of cadherin 3 (GenBank accession number NP\_001784)

SEQ ID NO:1

MGLPRGPLASLLLLQVCWLQCAASEPCRAVFREAEVTL EAGGAEQEPGQALGK  
VFMGCPGQEPALFSTDND DFTVRNGETVQERRSLKERNPLKIFPSKRILRRHKRD  
WVVAPISVPENGKGPF PQRLNQLKSNKDRDTKIFY SITGPGADSPPEGVF AVEKE  
TGWLLLNKPLDREEIAKYELFGH AVSENGASVEDPMNISII VTDQNDHKPKFTQD  
TFRGSVLEGVLPGT SVMQVTATDEDDAIYTYNGVVAYS IHSQEPKDPHDL MFTI  
HRSTGTISVISSGLDREKVPEYTLTIQATDMDGDGSTTTAVAVVEILDANDNAPM  
FDPQKYEAHV PENAVGHEVQRLTVTDLDAPNSPAWRATY LIMGGDDGDHFTITT  
HPESNQGILTTRKGLDFEAKNQHTLYVEVTNEAPFVLKLPTSTATIVVHVEDVNE  
APV FVPPSKVVEVQEGIPTGEPVCVYTAEDPDKENQKISYRILRDPAGWLAMDPD  
SGQVTA VGTLDREDEQFVRNNIYEV MVLAMDNGSPPTTGTG TLLLLTLIDVNDHG  
PVPEPRQITICNQSPVRHVLNITDKDLSPTSPFQAQLTDDSDIYWTAEVNEEGDT  
VVL SLKKFLKQDTYDVHLSLSDHGNKEQLTVIRATVCDCHGHVETCPGPWKGG  
FILPVLGAVLALLFLLV LLLLVRKKRKIKEPLLLPEDDTRDNV FYYGEEGGGEE  
DQDYDITQLHRGLEARPEV VLRNDVAPTIIPTMYRPRPANPDEIGNFIENLKAA  
NTDPTAPPYDTLLVFDYEGSGSDAASLSSLTSSASDQDQDYDYLNEWGSRFKKL  
ADMYGGGEDD

**FIGURE 1B**

Sequence of matrix metalloproteinase 14 (GenBank accession number NP\_004986)

SEQ ID NO:2

MSPAPRPPRCLLLPLLT LGTALASLGSAQSSSFSP EAWLQQYGYLPPGDLRHTQ  
RSPQSLSA AIAAMQKFYGLQVTGKADATMKAMRRPRCGVPDKFGAEIKANVR  
RKRYAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKA FRVWESATPLRFREVP  
YAYIREGHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFP GPNIGGDTHFDSA  
EPWTVRNEDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLP  
DDDRRGIQQLYGGESGFPTKMPPQPRTTSRPSVPDKPKNPTYGPNICDGNFDTVA  
MLRGEMFVFKERWFWVRNNQVMDGYPMPIGQFWRGLPASINTAYERKD GKF  
VFFKGDKHWVFDEASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRG N  
KYYRFNEELRAVDSEYPKNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFN  
NQKLKVEPGYPKSALRDWMGCPSSGGRPD EGTEEE TEV IIIEVDEEGGGA VSAAA  
VVLPVLLLLLVLA VGLAVFFFRRHGTPRRLLYCQRSLLDKV

## FIGURE 1C

Sequence of cadherin EGF LAG seven-pass G-type receptor 2 (GenBank accession number NP\_001399)

SEQ ID NO:3

MRSPATGVPLPTPPPLLLLLLLLLPPPLLGDQVGPCRSLGSRGRGSSGACAPMG  
WLCPSASNLWLYTSRCRDAGTELTGHLVPHHDGLRVWCPSEAHPLPPAPEG  
CPWSCRLLGIGGHLSPQGKLTLP EEHPCLKAPRLRCQSCKLAQAPGLRAGERSPE  
ESLGRRKRNVNTAPQFQPPSYQATVPENQPAGTPVASLRAIDPDEGEAGRLEYT  
MDALFDSRSNQFFSLDPVTGAVTTAEELDRETKSTHVFRVTAQDHGMPPRSALA  
TLTILVTDNDHDPVFEQQEYKESLRENLEVGYEVLTVRATDGDAPPNANILYRL  
LEGSGGSPSEVFEIDPRSGVIRTRGPVDREEVESYQLTVEASDQGRDPGPRSTTAA  
VFLSVEDDNDNAPQFSEKRYVVQVREDVTPGAPVLRVTASDRDKGSNAV VHYSI  
MSGNARGQFYLDAQTGALDVVSPLDYETTKKEYTLRVRAQDGGRPPLSNVSGLV  
TVQVLDINDNAPIFVSTPFQATVLESVPLGYLVLVHVQAIDADAGDNARLEYRLAG  
VGHDFFPTINNGTGWISVAAELDREEVDFYSFGVEARDHGTALASASVSVTVL  
DVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAH SVITYQITSGNTRNR  
FSITSQSGGGLVSLALPLDYKLERQYVLAVTASDGTRQDTAQIVNVNTDANTHRP  
VFQSSHYT VNVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPQFRIDADTG  
AVTTQAE LDYEDQVSYTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSY  
QGSVYEDVPPFTSVLQISATDRDSGLNGRVFYTFQGGDDGDGDFIVESTSGIVRT  
LRRLDRENV AQYVLRAYAVDKGMPPARTPMEVTVTVLDVNDNPPVFEQDEFDV  
FVEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIPEVFQLDIFSGELTALVDL  
DYEDRPEYVLVIQATSAPLVSRATVHVRLDRNDNPPVLGNFEILFN NYVTNRSS  
SFPGGAIGRVPAHDPDISDSLTYSFERNELSLVLLNASTGELKLSRALDNNRPLE  
AIMSVLVSDGVH SVTAQCALRVTTITDEMLTHSITLRLEDMSPERFLSPLLGLFIQA  
VAATLATPPDHVVVFNVQRD TDAPGGHILNVSLSVGQPPGPGGGPPFLPSEDLQE  
RLYLNRSLLT AISAQRVLPFDDNICLREPCENYMRCVSVLRFDSAPFIASSSVLFR  
PIHPVGGLRCRCPPGFTGDYCETEVDLCYSRPGPHGRCRSREGGYTCLCRDGYT  
GEHCEVSARSGRCTPGVCKNGGTCVNLVGGFKCDCPSGDFEKP YCQVTT RSFP  
AHSFITFRGLRQRFHFTLALS FATKERDGLLYNGRFNEKHDFVALEVIQEQVQL  
TFSAGESTTTVSPFVPGGVSDGQWHTVQLKYYNKPLLGGQTGLPQGPSEQKVAVV  
TVDGCDTGVALRFGSVLGNYSCAAQGTQGGSKKSLDLTGPLLLGGVPDLPESFP  
VRMRQFVGCMRNLQVDSRHIDMADFLANNGTVPGCPAKKNVCDSNTCHNGGT  
CVNQWDAFSCECPLGFGGKSCAQEMANPQHFLGSSLV AWHGLSLPISQPWYLSL  
MFRTRQADGVLLQAITRGRSTITLQLREGHVMLSVEGTGLQASSLRLEPGRAND  
GDWHHAQLALGASGGPGHAILSFDY GQQAEGNLGPR LHGLHLSNITVGGIPGP  
AGGVARGFRGCLQGVRVSDTPEGVNSLDP SHGESINVEQGCSLPDPCDSNPCPA  
NSYCSNDWDSYSCSDPGYYGDNCTNVCDLNPCEHQSVCTRKPSAPHGYTCEC  
PPNYLGPYCETRIDQPCPRGWWGHPTCGPCNC DVSKGFDPCNKTSGECHCKEN  
HYRPPGSPTCLLCDCYPTGSLSRVCDPEDGQCPCKPGVIGRQC DRCDNPFAEVT  
NGCEVNYDSCPRAIEAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCD EHRGWLPP  
NLFNCT SITFSELKGFAERLQRNESGLDSGRSQQ LALLLRNATQHTAGYFGSDVK  
VAYQLATRLLAHESTQRGFGLSATQDVHFTENLLRVGSALLDTANKRHWELIQQ

TEGGTAWLLQHYEAYASALAQNMRYHTYLSPTIVTPNIVISVVRLDKGNFAGAK  
LPRYEALRGEQPPDLETTVILPESVFRETTPPVVRPAGPGEAQEPEELARRQRRHPE  
LSQGEAVASVYYRTLGLLPHNYDPDKRSLRVPKRPINTPVVSISVHDDEELLPR  
ALDKPVTVQFRLLETEERTKPICVFWNHSILVSGTGGWSARGCEVVFRNESHVSC  
QCNHMTSFAVLMDVSRRENGEILPLKTLTYVALGVTLAALLLTFFFLTLLRILRS  
NQHGIRRNLTAAALGLAQLVLLGINQADLPFACTVIAILLHFLYLCTFSWALLEAL  
HLYRALTEVRDVNTGPMRFYYMLGWGVPAFITGLAVGLDPEGYGNPDFCWLSI  
YDTLIWSFAGPVAFVSMVSFLYILAAARASCAAQRQGFEEKGPVSGLQPSFAVLL  
LLSATWLLALLSVNSDTLLFHLYLFATCNCIQGPFIFLSYVLSKEVRKALKLACSR  
KPSDPALTTKSTLTSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPF  
LLREESALNPGQGPPGLGDPGSLFLEGQDQHDPTDSDSDLSLEDDQSGSYAST  
HSSDSEEEEEEEEEAAFPGEQGWDSLGPGAERLPLHSTPKDGGPGPGKAPWPG  
DFGTTAKESSGNGAPEERLRENGDALSGSLGPLPGSSAQPHKGILKKKCLPTIS  
EKSSLLRLPLEQCTGSSRGSSASEGSRGGPPPPRPPRQSLQEQLNGVMPIAMSIKA  
GTVDEDSSGSEFLFFNFLH

## Figure 1D

Peptides for antibodies that bind to cadherin3 (GenBank accession number NP\_001784):

RAVFREA EVTLEAGGAEQE (SEQ ID NO:4)

QEPALFSTDNDDFTVRN (SEQ ID NO:5)

QKYEAHV PENAVGHE (SEQ ID NO:6)

Peptides for antibodies that bind to matrix metalloproteinase 14 (GenBank accession number NP\_004986):

AYIREGHEKQADIMIFFAE (SEQ ID NO:7)

DEASLEPGYPKHIKELGR (SEQ ID NO:8)

RGSFMGSDEVFTYFYK (SEQ ID NO:9)

Peptides for antibodies that bind to anti-cadherin EGF LAG seven-pass G-type receptor 2 (GenBank accession number NP\_001399):

QASSLRLEPGRANDGDWH (SEQ ID NO:10)

ELKGFAERLQRNESGLDSGR (SEQ ID NO:11)

RSGKSQPSYIPFLLREE (SEQ ID NO:12)

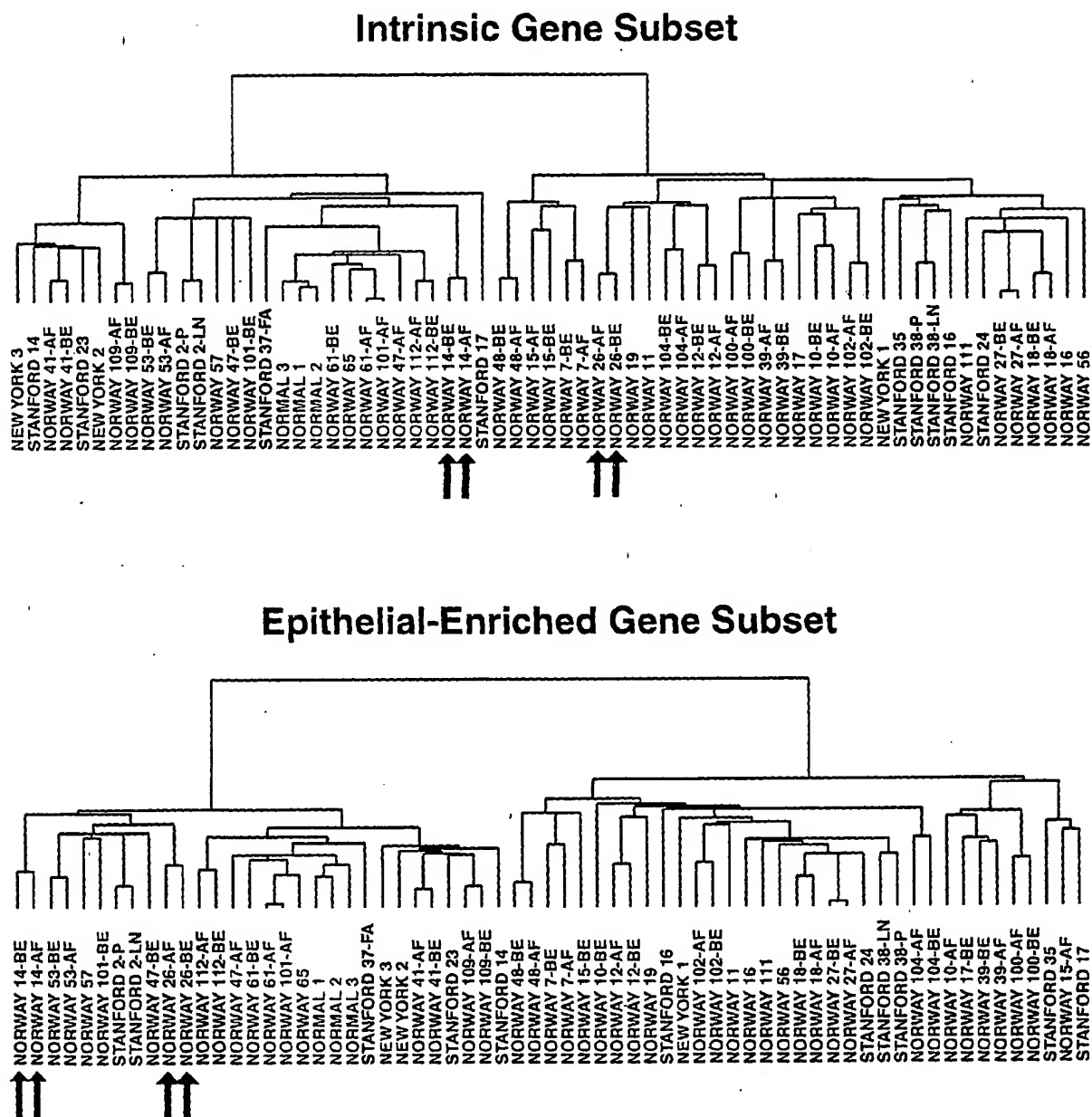
Peptides for antibodies that bind to anti-cytokeratin17:

KKEPVTTRQVRTIVEE (SEQ ID NO:13)

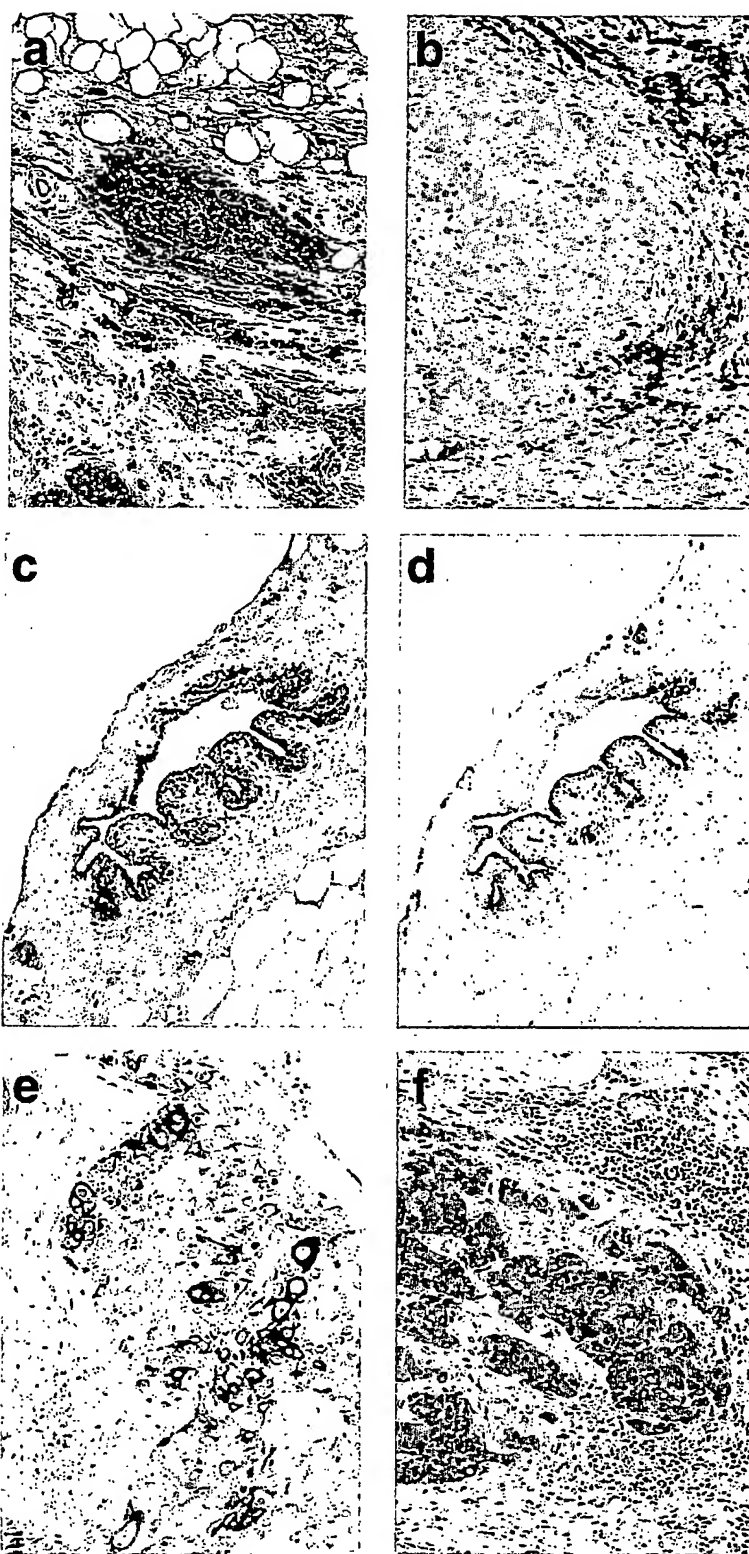
QDGKVISSREQVHQTTTR (SEQ ID NO:14)

SSSIKGSSGLGGGSS (SEQ ID NO:15)

FIGURE 2





**Figure 3**

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S0158

PCT/US01/23843

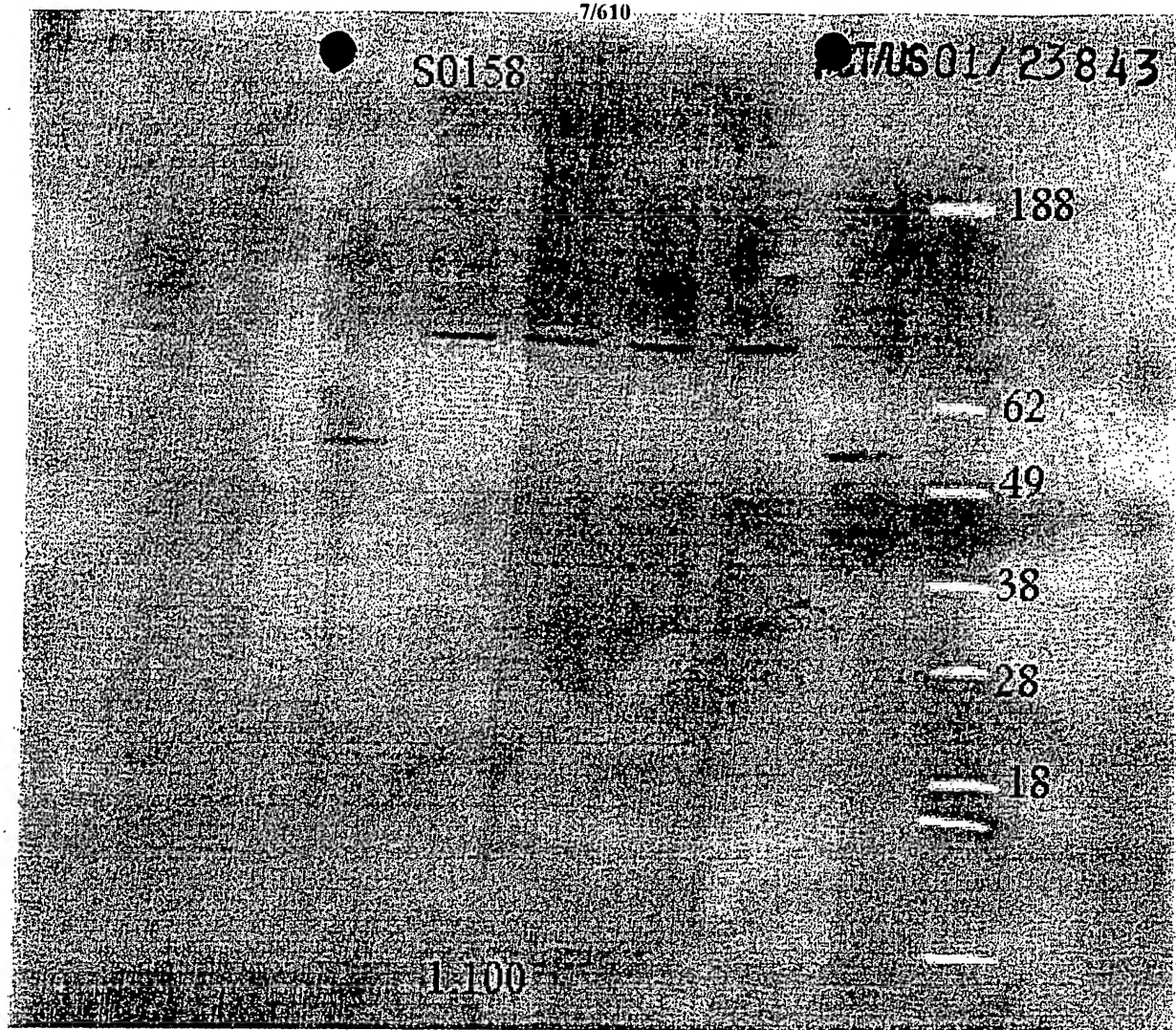
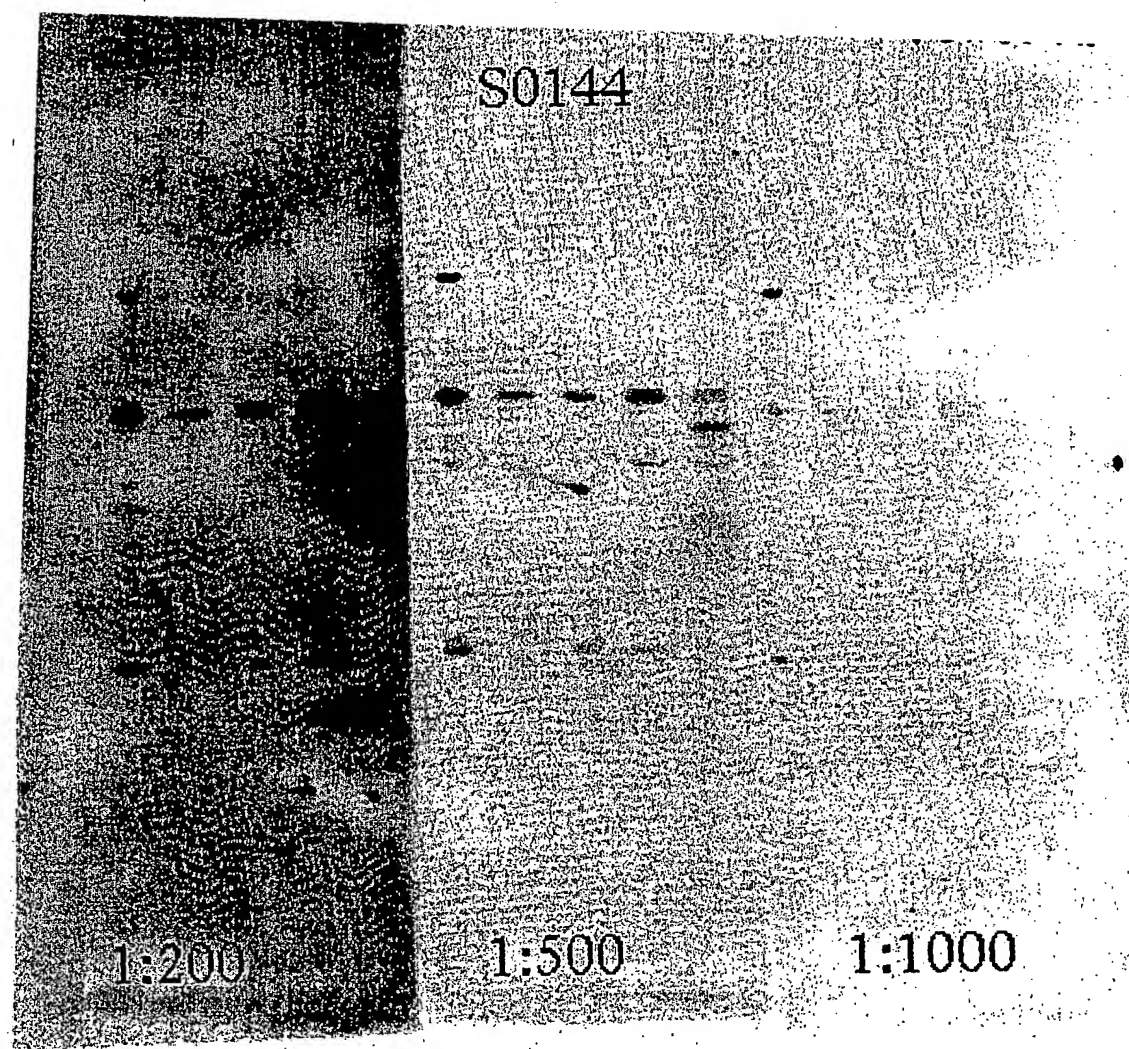


FIGURE 4A



**FIGURE 4B**

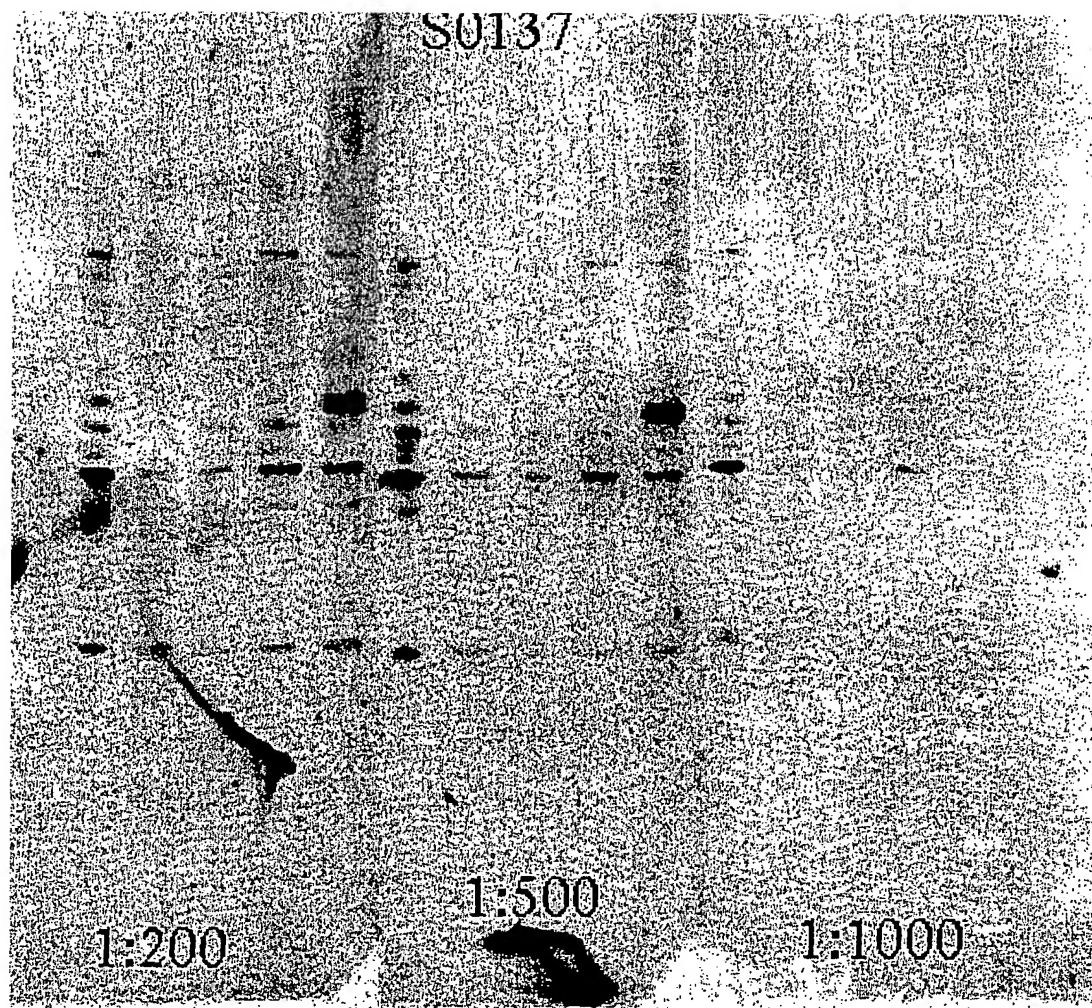


FIGURE 4C

Figure 5A

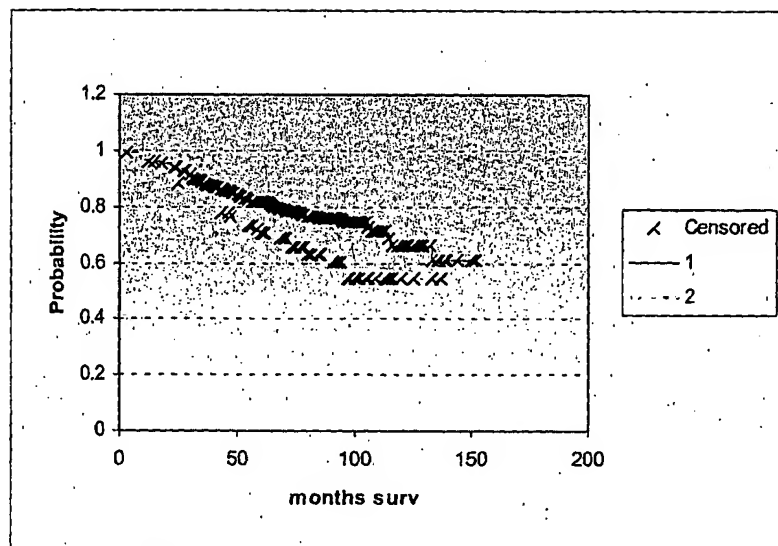
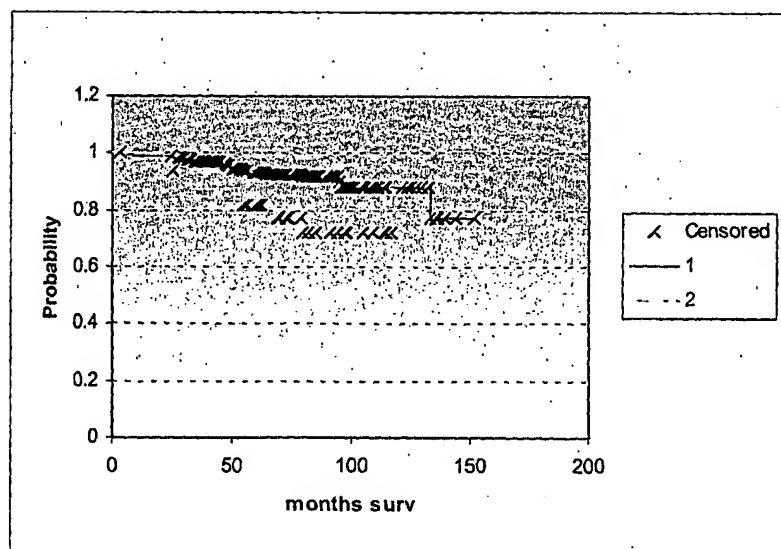


Figure 5B





B. s0158



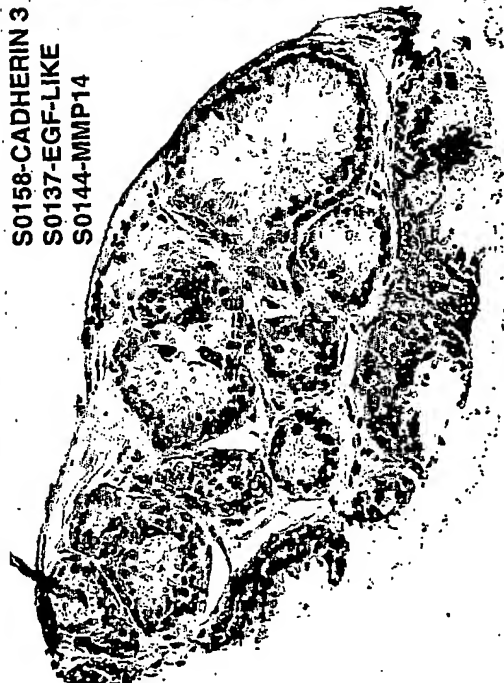
S0144

D.



A. ck5/6

S0158-CADHERIN 3  
S0137-EGF-LIKE  
S0144-MMP14



C. s0137



FIGURE 6

A. CK5/6



B. S0137



C. S0158



FIGURE 7

Table 3

## Common Reference Cell Line List

| Name      | Description                             | ATCC# or Reference  |
|-----------|---|---|
| MCF7      | breast adenocarcinoma derived cell line | ATCC #HTB-22  |
| Hs578T    | breast carcinosarcoma derived cell line | ATCC #HTB-126   |
| NTERA2    | teratoma derived cell line              | ATCC #CRL-1973  |
| Colo205   | colon tumor derived cell line           | ATCC #CCL-222   |
| OVCAR-3   | ovarian tumor derived cell line         | ATCC #HTB-161   |
| UACC-62   | melanoma derived cell line              | Stinson et al. Anticancer Res. Jul-Aug;12(4):1035-53 1992 |
| MOLT-4    | T-cell leukemia derived cell line       | ATCC #CRL-1582  |
| RPMI-8226 | multiple myeloma derived cell line      | ATCC #CCL-155   |
| NB4+ATRA  | APL-like cell line                      | Lanotte et al. Blood. Mar 1;77(5):1080-6, 1991            |
| SW872     | liposarcoma derived cell line           | ATCC #HTB-92  |
| HepG2     | liver tumor derived cell line           | ATCC #HB-8065   |



Table 4

| TUMOR + TISSUE SAMPLES |                    | Patient ID  | New Name      | Comments: before and after pair (Y or N), etc. |
|------------------------|--------------------|-------------|---------------|--|
| Array ID               | Sample ID/old name |             |               |  |
| svcc98.2               | BC107B-BE          | norway 7    | NORWAY 7-BE   | yes  |
| svcc63.2               | BC107A-AF          | norway 7    | NORWAY 7-AF   |  |
| svcc78.2               | BC110B-BE          | norway 10   | NORWAY 10-BE  | yes  |
| svcc77.2               | BC110A-AF          | norway 10   | NORWAY 10-AF  |  |
| svcc122.2              | BC111A-BE          | norway 11   | NORWAY 11     | no, no after                                   |
| svcc68.2               | BC111B-BE          | norway 19   | NORWAY 19     | no, no after                                   |
| svcc53.2               | BC112B-BE          | norway 12   | NORWAY 12-BE  | yes  |
| svcc97.2               | BC112A-AF          | norway 12   | NORWAY 12-AF  |  |
| svcc81.2               | BC114A-BE          | norway 14   | NORWAY 14-BE  | yes  |
| svcc52.2               | BC114B-AF          | norway 14   | NORWAY 14-AF  |  |
| svcc106.2              | BC115B-BE          | norway 15   | NORWAY 15-BE  | yes  |
| svcc64.2               | BC115A-AF          | norway 15   | NORWAY 15-AF  |  |
| svcc108.2              | BC116A-BE          | norway 16   | NORWAY 16     | no, no after                                   |
| svcc88.2               | BC117A-BE          | norway 17   | NORWAY 17     | no, no after                                   |
| svcc134.2              | BC118B-BE          | norway 18   | NORWAY 18-BE  | yes  |
| svcc112.2              | BC118A-AF          | norway 18   | NORWAY 18-AF  |  |
| svcc89.2               | BC123B-BE          | norway 26   | NORWAY 26-BE  | yes  |
| svcc91.2               | BC123A-AF          | norway 26   | NORWAY 26-AF  |  |
| svcc111.2              | BC124A-BE          | norway 27   | NORWAY 27-BE  | yes  |
| svcc109.2              | BC124B-AF          | norway 27   | NORWAY 27-AF  |  |
| svcc1077.2             | BC1257             | new york 1  | NEW YORK 1    | no   |
| svcc132.2              | BC1369             | new york 2  | NEW YORK 2    | no   |
| svcc61.2               | BC14               | stanford 14 | STANFORD 14   | no   |
| svcc137.2              | BC16               | stanford 16 | STANFORD 16   | no   |
| svcc119.2              | BC17               | stanford 17 | STANFORD 17   | no   |
| svcc96.2               | BC2                | stanford 2  | STANFORD 2-P  | primary tumor                                  |
| svcc113.2              | BC2-LN2            | stanford 2  | STANFORD 2-LN | lymph node metastasis                          |
| svcc93.2               | BC206A-BE          | norway 39   | NORWAY 39-BE  | yes  |
| svcc135.2              | BC206B-AF          | norway 39   | NORWAY 39-AF  |  |
| svcc107.2              | BC208A-BE          | norway 41   | NORWAY 41-BE  | yes  |
| svcc125.2              | BC208B-AF          | norway 41   | NORWAY 41-AF  |  |
| svcc76.2               | BC213B-BE          | norway 47   | NORWAY 47-BE  | yes  |
| svcc79.2               | BC213A-AF          | norway 47   | NORWAY 41-AF  |  |
| svcc92.2               | BC214B-BE          | norway 48   | NORWAY 48-BE  | yes  |
| svcc103.2              | BC214A-AF          | norway 48   | NORWAY 48-AF  |  |
| svcc99.2               | BC23               | stanford 23 | STANFORD 23   | no   |
| svcc100.2              | BC24               | stanford 24 | STANFORD 24   | no   |

Table 4

|                   |                 |             |                   |   |  |
|-------------------|-----------------|-------------|-------------------|---|--|
| svcc131.2         | BC305A-BE       | norway 53   | NORWAY 53-BE      | yes   |  |
| svcc58.2          | BC305B-AF       | norway 53   | NORWAY 53-AF      |   |  |
| svcc87.2          | BC308B-BE       | norway 56   | NORWAY 56         | no, no after  |  |
| svcc51.2          | BC309A-BE       | norway 57   | NORWAY 57         | no, no after  |  |
| svcc118.2         | BC35-0          | stanford 35 | STANFORD 35       | no  |  |
| svcc117.2         | BC37-FA         | stanford 37 | STANFORD 37-FA    | no  |  |
| svcc115.2         | BC38            | stanford 38 | STANFORD 38-P     | Lymph node met of tumor/LNmet pair 2  |  |
| svcc116.2         | BC38-LN38       | stanford 38 | STANFORD 38-LN    | is a LN met with NO corresponding primary tumor sample                                |  |
| svcc83.2          | BC402B-BE       | norway 61   | NORWAY 61-BE      | yes   |  |
| svcc66.2          | BC403B-AF       | norway 61   | NORWAY 61-AF      |   |  |
| svcc123.2         | BC406A-BE       | norway 65   | NORWAY 65         | no, no after  |  |
| svcc104.2         | BC708B-BE       | norway 100  | NORWAY 100-BE     | yes   |  |
| svcc86.2          | BC708A-AF       | norway 100  | NORWAY 100-AF     |   |  |
| svcc84.2          | BC709B-BE       | norway 101  | NORWAY 101-BE     | yes   |  |
| svcc85.2          | BC709A-AF       | norway 101  | NORWAY 101-AF     |   |  |
| svcc101.2         | BC710A-BE       | norway 102  | NORWAY 102-BE     | yes   |  |
| svcc82.2          | BC710B-AF       | norway 102  | NORWAY 102-AF     |   |  |
| svcc120.2         | BC711B-BE       | norway 104  | NORWAY 104-BE     | yes   |  |
| svcc65.2          | BC711A-AF       | norway 104  | NORWAY 104-AF     |   |  |
| svcc130.2         | BC790           | new york 3  | NEW YORK 3        | no  |  |
| svcc105.2         | BC805A-BE       | norway 109  | NORWAY 109-BE     | yes   |  |
| svcc121.2         | BC805B-AF       | norway 109  | NORWAY 109-AF     |   |  |
| svcc55.2          | BC807A-BE       | norway 111  | NORWAY 111        | no, no after  |  |
| svcc124.2         | BC808A-BE       | norway 112  | NORWAY 112-BE     | yes   |  |
| svcc126.2         | BC808A-AF       | norway 112  | NORWAY 112-AF     |   |  |
| svcc70.2          | Normal Breast 1 | clontech 1  | NORMAL 1          | Normal Breast 1 (6 pooled whole normal breasts specimens)                             |  |
| svcc127.2         | Normal Breast2  | clontech 2  | NORMAL 2          | Normal Breast 2 (2 pooled whole normal breast specimens)                              |  |
| svcc18.2          | NorwNorBst1     | norway NB   | NORMAL 3          | NorwNorBst1 (sample from a single individual)   |  |
| CELL LINE SAMPLES |                 |             |                   |   |  |
| svcc128.2         | BT-474          | Cell line   | BT-474            | cell line; luminal epithelial, ERBB2 positive   |  |
| svcc69.2          | BT-549          | Cell line   | BT-549            | cell line; breast derived   |  |
| svcc500.2         | HMEC-1NFa       | Cell line   | HMEC-1FN $\alpha$ | cell line; HMEC-C isolate, basal epithelial cell line plus IFN alpha                  |  |
| svcc94.2          | HMEC-C          | Cell line   | HMEC-C            | cell line; HMEC-C isolate, basal epithelial cell line untreated                       |  |
| svcc47.2          | HMEC-C Conf2    | Cell line   | HMEC-C CON        | cell line; HMEC-C isolate, basal epithelial cell line after 2 days at 100% confluence |  |
| svcc41.2          | HMVEC           | Cell line   | HMVEC             | cell line; dermal microvascular endothelial cells                                     |  |
| svcc110.2         | Hs578T          | Cell line   | Hs578T            | cell line; breast carcinosarcoma derived  |  |
| svcc42.2          | HUVEC           | Cell line   | HUVEC             | cell line; human umbilical vein derived endothelial cell line                         |  |
| svcc1299.2        | MCF7-NCl        | Cell line   | MCF7              | cell line; luminal epithelial, Estrogen receptor positive                             |  |

Table 4

|          |            |           |            |   |
|----------|------------|-----------|------------|---|
| svcc73.2 | MDA-MB-321 | Cell line | MDA-MB-231 | cell line; breast derived   |
| svcc72.2 | MOLT4      | Cell line | MOLT4      | cell line; t-cell leukemia derived  |
| svcc67.2 | NB4+ATRA   | Cell line | NB4+ATRA   | cell line; neutrophil-like after Retinoic Acid induced differentiation (72 hours) |
| svcc54.2 | RPMI-8226  | Cell line | RPMI-8226  | cell line; b-cell like (derived from a multiple myeloma)                          |
| svcc15.2 | SK-BR-3    | Cell line | SK-BR-3    | cell line; luminal epithelial, ERBB2 positive                                     |
| svcc74.2 | SW872      | Cell line | SW872      | cell line; liposarcoma derived cell line  |
| svcc71.2 | T47D       | Cell line | T47D       | cell line; luminal epithelial, Estrogen receptor positive                         |
| svcc38.2 | 184A1-LATE | Cell line | 184A1      | cell line; basal epithelial, immortal derivative of 184Aa                         |
| svcc17.2 | 184Aa      | Cell line | 184Aa      | cell line; basal epithelial, a second HMEC isolate unrelated to HMEC-C            |
| svcc40.2 | 184B5      | Cell line | 184B5      | cell line; basal epithelial, immortal derivative of 184Aa                         |

## Legend for Table 5

- 1= tumor name as it appears in the figures
- 2= clinical estrogen receptor status (determined by dextran binding assay or immunohistochemistry)
- 3= average R/G ratio of two independent sequence verified *ESR1* clones (the correlation between clinical ER status and the microarray data is best if one calls a R/G ratio of 2.25 or greater "positive" for estrogen receptor status)
- 4= *Erb-B2* clinical status as determined using immunohistochemistry
- 5= average R/G ratio of four independent sequence verified *Erb-B2* clones (the correlation between clinical *ERBB2* status and the microarray data is best if one calls a microarray ratio of 3.15 or greater "positive")
- 6= tumor grade
- 7= differentiation status
- 8= patient survival status: NED=no evidence of disease, AWD=alive with disease, DOD=dead of disease, DOC=dead of other cause
- 9= survival time in months
- 10= age at diagnosis
- 11=doxorubicin response: PR = reduction in tumor of 50% or more, PD = Increase in tumor size over the course of the doxorubicin therapy, NT = not tested (described in T. Aas et al., Nature Medicine Vol. 2, p811-814 (1996))
- 12= p53 mutational status summary
- 13= p53 gene codon affected by mutation, if present
- 14= p53 gene nucleotide change identified
- 15= effect on p53 amino acid sequence, if applicable
- 16= additional findings and notes



Table 5

| 1  | TUMOR ID             | STANFORD 2 | NORWAY 57 | NORWAY 47  | NORWAY 101 | STANFORD 37-FA | NORWAY 61 | NORWAY 65 |
|----|----------------------|------------|-----------|------------|------------|----------------|-----------|-----------|
| 2  | ESR Clinical         | negative   | negative  | positive   | positive   | not tested     | positive  | negative  |
| 3  | ESR Array            | 1          | 0.88      | 2.28       | 0.47       | 2.25           | 2.27      | 8.6       |
| 4  | ERBB2 Clinical       | positive   | positive  | not tested | positive   | not tested     | positive  | negative  |
| 5  | ERBB2 Array          | 22.6       | 15.5      | 9.5        | 23.3       | 4.44           | 12.1      | 1.52      |
| 6  | Tumor Grade          | 3          | 3         | not tested | 3          | fibroadenoma   | 2         | 3         |
| 7  | Differentiation      | ductal     | ductal    | DCIS       | ductal     | NED            | lobular   | ductal    |
| 8  | Survival Status      | DOD        | DOD       | NED        | AWD        | NED            | NED       | DOD       |
| 9  | Survival Time        | 6          | 10        | 66         | 20         | 14             | 57        | 23        |
| 10 | Age at Diagnosis     | 44         | 46        | 51         | 73         | 32             | 58        | 66        |
| 11 | Doxorubicin Response | NT         | PD        | PR         | PR         | NT             | PR        | PD        |
| 12 | p53 Status           | missense   | missense  | WT         | nonsense   | not tested     | WT        | WT        |
| 13 | p53 Codon            | 273        | 248       |            | 136        |                |           |           |
| 14 | p53 Mutation         | CGT->TGT   | CGG->CAG  |            | CAA->TAA   |                |           |           |
| 15 | p53 A.A. Seq         | arg->cys   | arg->gln  |            | gln->stopp |                |           |           |
| 16 | Special Notes        |            |           |            |            | benign lesion  |           |           |

|    | 1  | TUMOR ID                   | NORWAY 112       | NORWAY 14        | STANFORD 17       | NORWAY 48                 | NORWAY 15        | NORWAY 7        | NORWAY 26             |
|----|----|----------------------------|------------------|------------------|-------------------|---------------------------|------------------|-----------------|-----------------------|
| 2  | 3  | ESR Clinical ESR Array     | positive<br>3.35 | positive<br>0.71 | positive<br>9.1   | negative<br>0.81          | positive<br>5.48 | positive<br>6   | positive<br>9.1       |
| 4  | 5  | ERBB2 Clinical ERBB2 Array | negative<br>1.75 | negative<br>8.15 | not tested<br>4.6 | negative<br>2.7           | negative<br>1.57 | negative<br>1.9 | positive<br>10.8      |
| 6  | 7  | Tumor Grade                | 3                | 2                | 2                 | 3                         | 3                | 2               | 2                     |
| 7  | 8  | Differentiation            | DUCTAL           | ductal           | ductal            | ductal                    | ductal           | ductal          | ductal                |
| 8  | 9  | Survival Status            | NED              | DOD              | NED               | DOD                       | NED              | AWD             | DOD                   |
| 9  | 10 | Survival Time              | 22               | 12               | 35                | 7                         | 79               | 89              | 43                    |
| 10 | 11 | Age at Diagnosis           | 37               | 82               | 53                | 54                        | 47               | 66              | 72                    |
| 11 |    | Doxorubicin Response       | PD               | PR               | NT                | PD                        | PR               | PR              | PD                    |
| 12 | 13 | p53 Status                 | WT               | WT               | WT                | WT                        | missense<br>163  | missense<br>273 | frameshift<br>217-221 |
| 13 | 14 | p53 Codon                  |                  |                  |                   |                           | TAC->TGC         | CGT->CAT        | 14bp del              |
| 14 | 15 | p53 Mutation               |                  |                  |                   |                           | tyr->cys         | arg->his        | frameshift            |
| 15 |    | p53 A.A. Seq               |                  |                  |                   |                           |                  |                 |                       |
| 16 |    | Special Notes              |                  |                  |                   | p16 mutant (145 ile->val) |                  |                 |                       |

Table 5

| 1  | TUMOR ID             | NORWAY 19 | NORWAY 11  | NORWAY 104 | NORWAY 12 | NORWAY 100 | NORWAY 39 | NORWAY 17 |
|----|----------------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| 2  | ESR Clinical         | positive  | positive   | positive   | positive  | positive   | positive  | positive  |
| 3  | ESR Array            | 7.9       | 8.65       | 10.8       | 31.88     | 19         | 12        | 32.9      |
| 4  | ERBB2 Clinical       | negative  | positive   | positive   | positive  | negative   | negative  | negative  |
| 5  | ERBB2 Array          | 1.43      | 3.3        | 3.15       | 3.9       | 1.45       | 1.46      | 2.5       |
| 6  | Tumor Grade          | 3         | 3          | 3          | 3         | 3          | 2         | 2         |
| 7  | Differentiation      | ductal    | ductal     | ductal     | ductal    | ductal     | ductal    | ductal    |
| 8  | Survival Status      | DOD       | DOD        | NED        | DOD       | DOD        | NED       | NED       |
| 9  | Survival Time        | 20        | 15         | 31         | 8         | 17         | 67        | 80        |
| 10 | Age at Diagnosis     | 74        | 67         | 44         | 75        | 47         | 85        | 76        |
| 11 | Doxorubicin Response | PD        | PD         | PD         | PR        | PR         | PR        | PR        |
| 12 | p53 Status           | missense  | nonsense   | WT         | WT        | nonsense   | missense  | WT        |
| 13 | p53 Codon            | 249       | 204        |            |           | 165        | 237       |           |
| 14 | p53 Mutation         | AGG->GGG  | GAG->TAG   |            |           | CAG->TAG   | ATG->ATT  |           |
| 15 | p53 A.A. Seq         | arg->gly  | glu->stopp |            |           | gln->stopp | met->ile  |           |
| 16 | Special Notes        |           |            |            |           |            |           |           |





Table 5

| 1  | TUMOR ID             | STANFORD 24 | NORWAY 27 | NORWAY 18 | NORWAY 16 | NORWAY 56 |
|----|----------------------|-------------|-----------|-----------|-----------|-----------|
| 2  | ESR Clinical         | positive    | positive  | positive  | positive  | positive  |
| 3  | ESR Array            | 16.99       | 29        | 27.81     | 18.9      | 33        |
| 4  | ERBB2 Clinical       | negative    | negative  | negative  | negative  | negative  |
| 5  | ERBB2 Array          | 1.88        | 2.8       | 2.32      | 3.96      | 1.49      |
| 6  | Tumor Grade          | 2           | 1         | 2         | 3         | 3         |
| 7  | Differentiation      | ductal      | ductal    | ductal    | ductal    | ductal    |
| 8  | Survival Status      | NED         | AWD       | DOC       | NED       | NED       |
| 9  | Survival Time        | 13          | 73        | 33        | 78        | 61        |
| 10 | Age at Diagnosis     | 69          | 77        | 66        | 74        | 64        |
| 11 | Doxorubicin Response | NT          | PR        | PR        | PR        | PR        |
| 12 | p53 Status           | WT          | WT        | WT        | WT        | WT        |
| 13 | p53 Codon            |             |           |           |           |           |
| 14 | p53 Mutation         |             |           |           |           |           |
| 15 | p53 A.A. Seq         |             |           |           |           |           |
| 16 | Special Notes        |             |           |           |           |           |

Table 6

| GID         | UID                         | NAME  |
|-------------|-----------------------------|---|
| AID         |                             |   |
| EWEIGHT     |                             |   |
| 1 GENE369X  | GF201:96(97D9):384(13H18)   | AMYLO-1,6-GLUCOSIDASE, 4-ALPHA-GLUCANOTRANSFERASE (GLYCOGEN DEBRANCHING ENZYME, GLYCOGEN STORAGE DISEASE TYPE III) AA668425   |
| 2 GENE437X  | PEROU:96(4C5):384(19F9)     | GDNF FAMILY RECEPTOR ALPHA 1 AA512935   |
| 3 GENE15X   | GF200:96(12C7):384(3F13)    | GLUTATHIONE S-TRANSFERASE THETA 2 AA490777  |
| 4 GENE174X  | GF200:96(7H5):384(2P10)     | HUMAN CLONE 23907 MRNA SEQUENCE R06567  |
| 5 GENE74X   | GF200:96(19B3):384(5D6)     | A DISINTEGRIN AND METALLOPROTEINASE DOMAIN 15 (METARGIDIN) AA292676   |
| 6 GENE449X  | PEROU:96(6C4):384(20E8)     | B-FACTOR, PROPERDIN H80257  |
| 7 GENE367X  | GF201:96(97C2):384(13F4)    | B-FACTOR, PROPERDIN AA401441  |
| 8 GENE57X   | GF200:96(17D7):384(5G13)    | MUCIN 1, TRANSMEMBRANE AA488073   |
| 9 GENE425X  | PEROU:96(1G8):384(19M15)    | 156053 R72491   |
| 10 GENE385X | GF202:96(109D11):384(15G21) | SELENIUM BINDING PROTEIN 1 T65736   |
| 11 GENE356X | GF201:96(96E2):384(13I4)    | ZA (REGION BETWEEN EXONS 35 AND 36 OF THE COMPLEMENT COMPONENT C4 GE) [HUMAN, FETAL ADRENAL GLAND, MRNA, 830 NT] AA664406   |
| 12 GENE131X | GF200:96(29D11):384(8G21)   | ESTS, HIGHLY SIMILAR TO TRANSCRIPTION ELONGATION FACTOR TFIIS.H [H.SAPIENS] R09980  |
| 13 GENE162X | GF200:96(6D1):384(2G2)      | KIAA0307 GENE PRODUCT AA019774  |
| 14 GENE252X | GF201:96(68E7):384(24I4)    | H2A HISTONE FAMILY, MEMBER L N50797   |
| 15 GENE284X | GF201:96(85D6):384(10H12)   | H2B HISTONE FAMILY, MEMBER Q AA010223   |
| 16 GENE172X | GF200:96(7D9):384(2H18)     | H2B HISTONE FAMILY, MEMBER Q AA456695   |
| 17 GENE368X | GF201:96(97C6):384(13F12)   | B-CELL CLL/LYMPHOMA 2 W63749  |
| 18 GENE403X | GF202:96(114A6):384(16A12)  | ESTS, WEAKLY SIMILAR TO MEMBRANE GLYCOPROTEIN [M.MUSCULUS] AA159578   |
| 19 GENE383X | GF201:96(99H6):384(14O11)   | 51700 H22854  |
| 20 GENE474X | PEROU:96(8C5):384(20F9)     | NEBULETTE N77806  |
| 21 GENE138X | GF200:96(31C3):384(8F6)     | HUMAN DNA SEQUENCE FROM CLONE 167A19 ON CHROMOSOME 1P32.1-33. CONTAINS THREE GENES FOR NOVEL PROTEINS, THE DIO1 GENE FOR TYPE I IODOTHYRONINE DEIODINASE (EC 3.8.1.4, TXD11, ITD11) AND AN HNRNP A3 (HETEROGENOUS NUCLEAR RIBONUCLEOPR N74025 |
| 22 GENE293X | GF201:96(87B9):384(11C17)   | PROLACTIN RECEPTOR R63647   |
| 23 GENE482X | PEROU:96(9B3):384(18D6)     | 202658 H53479   |
| 24 GENE471X | PEROU:96(8B3):384(20D5)     | 202658 H53479   |
| 25 GENE391X | GF202:96(111A12):384(15B24) | 609283 AA167189   |
| 26 GENE316X | GF201:96(89G11):384(11N22)  | MYOSIN VI AA625890  |
| 27 GENE132X | GF200:96(29E4):384(8I7)     | 470216 AA028987   |
| 28 GENE444X | PEROU:96(6B10):384(20C20)   | N-ACETYLTRANSFERASE 1 (ARYLAMINE N-ACETYLTRANSFERASE) R91803  |
| 29 GENE217X | GF201:96(57B11):384(21D22)  | HOMO SAPIENS MRNA; CDNA DKFZP434A091 (FROM CLONE DKFZP434A091) AA431988   |
| 30 GENE232X | GF201:96(64C7):384(23E14)   | 358936 W92233   |
| 31 GENE140X | GF200:96(32E12):384(8I23)   | SEVEN IN ABSENTIA (DROSOPHILA) HOMOLOG 2 AA029041   |
| 32 GENE122X | GF200:96(26H10):384(7O20)   | HEPSIN (TRANSMEMBRANE PROTEASE, SERINE 1) H62162  |

Table 6

|    |          |                             |  |  |
|----|----------|-----------------------------|--|--|
| 33 | GENE228X | GF201:96(61A3):384(22B6)    | 417081 W87826  |  |
| 34 | GENE475X | PEROU:96(8D12):384(20H23)   | 470105 AA029949  |  |
| 35 | GENE304X | GF201:96(88E10):384(11I20)  | HUMAN SECRETORY PROTEIN (P1.B) MRNA, COMPLETE CDS N74131                               |  |
| 36 | GENE465X | PEROU:96(7F6):384(20L12)    | HEPATOCYTE NUCLEAR FACTOR 3, ALPHA T74639  |  |
| 37 | GENE271X | GF201:96(82C9):384(9F17)    | X-BOX BINDING PROTEIN 1 W90128   |  |
| 38 | GENE439X | PEROU:96(4D8):384(19H15)    | ESTROGEN RECEPTOR 1 AA291702   |  |
| 39 | GENE351X | GF201:96(96A7):384(13A14)   | ESTROGEN RECEPTOR 1 AA291749   |  |
| 40 | GENE17X  | GF200:96(12E12):384(3J23)   | GATA-BINDING PROTEIN 3 H72474  |  |
| 41 | GENE479X | PEROU:96(9A4):384(18B8)     | GATA-BINDING PROTEIN 3 R31441  |  |
| 42 | GENE441X | PEROU:96(6A11):384(20A22)   | GATA-BINDING PROTEIN 3 R31442  |  |
| 43 | GENE483X | PEROU:96(9B5):384(18D10)    | ANNEXIN XXI N76688   |  |
| 44 | GENE178X | GF200:96(8C12):384(2F23)    | HUMAN BREAST CANCER, ESTROGEN REGULATED LIV-1 PROTEIN (LIV-1) MRNA, PARTIAL CDS H29407 |  |
| 45 | GENE250X | GF201:96(67E2):384(24I3)    | 346321 W74079  |  |
| 46 | GENE374X | GF201:96(98C7):384(13F13)   | HUMAN CHROMOSOME 16 BAC CLONE CIT9875K-254P9 H23265                                    |  |
| 47 | GENE196X | GF201:96(101C12):384(14F24) | 71863 T52564   |  |
| 48 | GENE267X | GF201:96(81E4):384(9J8)     | 271989 N31935  |  |
| 49 | GENE3X   | GF200:96(10C3):384(3E6)     | ESTS, HIGHLY SIMILAR TO INOSITOL POLYPHOSPHATE 4-PHOSPHATASE TYPE II-ALPHA [H.SAPIENS] |  |
| 50 | GENE481X | PEROU:96(9B2):384(18D4)     | R86721   |  |
| 51 | GENE470X | PEROU:96(8B2):384(20D3)     | 179211 H50224  |  |
| 52 | GENE222X | GF201:96(58D2):384(21H3)    | 179211 H50224  |  |
| 53 | GENE56X  | GF200:96(17D5):384(5G9)     | MURINE LEUKEMIA VIRAL (BML-1) ONCOGENE HOMOLOG T87515                                  |  |
| 54 | GENE14X  | GF200:96(12A2):384(3B3)     | MURINE LEUKEMIA VIRAL (BML-1) ONCOGENE HOMOLOG AA478036                                |  |
| 55 | GENE372X | GF201:96(97G8):384(13N16)   | LUTHERAN BLOOD GROUP (AUBERGER B ANTIGEN INCLUDED) H24954                              |  |
| 56 | GENE238X | GF201:96(65D7):384(23H14)   | HOMO SAPIENS (PWD) GENE MRNA, 3' END N26536  |  |
| 57 | GENE40X  | GF200:96(14G9):384(4M18)    | 782547 AA431796  |  |
| 58 | GENE277X | GF201:96(83C1):384(10E1)    | ACYL-COENZYME A DEHYDROGENASE, SHORT/BRANCHED CHAIN H96140                             |  |
| 59 | GENE381X | GF201:96(99D10):384(14G19)  | CARNITINE PALMITOYLTRANSFERASE II N70848   |  |
| 60 | GENE31X  | GF200:96(13D9):384(4G17)    | ALDO-KETO REDUCTASE FAMILY 7, MEMBER A2 (AFLATOXIN ALDEHYDE REDUCTASE) T62865          |  |
| 61 | GENE81X  | GF200:96(1F2):384(1K3)      | CYTOCHROME P450, SUBFAMILY IIA (PHENOBARBITAL-INDUCIBLE), POLYPEPTIDE 7 T73031         |  |
| 62 | GENE319X | GF201:96(90E9):384(11J17)   | ANGIOTENSIN RECEPTOR 1 H66116  |  |
| 63 | GENE163X | GF200:96(6D3):384(2G6)      | LYMPHOID NUCLEAR PROTEIN RELATED TO AF4 H99588   |  |
| 64 | GENE26X  | GF200:96(12H10):384(3P19)   | HUMAN MRNA FOR KIAA0303 GENE, PARTIAL CDS AA418846                                     |  |
| 65 | GENE325X | GF201:96(91H2):384(12O3)    | EPOXIDE HYDROLASE 2, CYTOPLASMIC R73525  |  |
| 66 | GENE165X | GF200:96(6D8):384(2G16)     | DUAL SPECIFICITY PHOSPHATASE 4 AA444049  |  |
| 67 | GENE105X | GF200:96(25C5):384(7E9)     | EGF-LIKE-DOMAIN, MULTIPLE 2 H39187   |  |
| 68 | GENE142X | GF200:96(32G8):384(8N15)    | CYCLIN D1 (PRAD1: PARATHYROID ADENOMATOSIS 1) AA487700                                 |  |
| 69 | GENE431X | PEROU:96(2G10):384(19M20)   | ALPHA-1-ANTICHYMOTRYPSIN T80924  |  |
| 70 | GENE186X | GF200:96(9G1):384(3M1)      | TREFOIL FACTOR 1 (BREAST CANCER, ESTROGEN-INDUCIBLE SEQUENCE EXPRESSED IN) R83818      |  |
|    |          |                             | ESTS, MODERATELY SIMILAR TO CADHERIN 12 [H.SAPIENS] W02256                             |  |

Table 6

|     |          |                            |  |
|-----|----------|----------------------------|--|
| 71  | GENE89X  | GF200:96(22E10):384(6I20)  | ESTS, MODERATELY SIMILAR TO CADHERIN 12 [H.SAPIENS] AA418564   |
| 72  | GENE345X | GF201:96(95D3):384(13G5)   | SMA3 AA028921  |
| 73  | GENE22X  | GF200:96(12G1):384(3N1)    | FLAVIN CONTAINING MONOOXYGENASE 5 H52001   |
| 74  | GENE323X | GF201:96(91C10):384(12E19) | HOMO SAPIENS BASIC TRANSCRIPTION FACTOR 2 P44 (BTf2P44) GENE, PARTIAL CDS, NEURONAL APOPTOSIS INHIBITORY PROTEIN (NAIP) AND SURVIVAL MOTOR NEURON PROTEIN (SMN) GENES, COMPLETE CDS W72437 |
| 75  | GENE259X | GF201:96(79G2):384(9M3)    | 204740 H57306  |
| 76  | GENE136X | GF200:96(2H4):384(1O8)     | PLASMINOGEN ACTIVATOR, TISSUE AA453728   |
| 77  | GENE123X | GF200:96(26H12):384(7O24)  | H.SAPIENS MRNA FOR RAT HREV107-LIKE PROTEIN AA476543   |
| 78  | GENE415X | PEROU:96(10B11):384(18D21) | ESTS WEAKLY SIMILAR TO HEAT SHOCK 27 KD PROTEIN [H.SAPIENS] AA010110   |
| 79  | GENE128X | GF200:96(28E10):384(7J19)  | ESTS, WEAKLY SIMILAR TO HSP 27 [H.SAPIENS] H57494  |
| 80  | GENE240X | GF201:96(66D10):384(23H19) | 267681 N25553  |
| 81  | GENE155X | GF200:96(4G3):384(1N5)     | 547247 AA085318  |
| 82  | GENE346X | GF201:96(95F4):384(13K7)   | GLUTATHIONE S-TRANSFERASE THETA 1 H99813   |
| 83  | GENE54X  | GF200:96(16H3):384(4P5)    | PARVALBUMIN AA010609   |
| 84  | GENE191X | GF201:96(100C2):384(14E4)  | 50582 H17038   |
| 85  | GENE347X | GF201:96(95G1):384(13M1)   | GLUTAMATE DECARBOXYLASE 1 (BRAIN, 67KD) AA018457   |
| 86  | GENE292X | GF201:96(87B4):384(11C7)   | PROTEIN KINASE, CAMP-DEPENDENT, CATALYTIC, BETA AA018980   |
| 87  | GENE291X | GF201:96(87A12):384(11A23) | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, M H26426  |
| 88  | GENE290X | GF201:96(87A11):384(11A21) | RAP1, GTPASE ACTIVATING PROTEIN 1 AA682897   |
| 89  | GENE324X | GF201:96(91E8):384(12I15)  | TRANSFORMING GROWTH FACTOR BETA-STIMULATED PROTEIN TSC-22 AA664389   |
| 90  | GENE88X  | GF200:96(22C1):384(6E2)    | TISSUE SPECIFIC TRANSPLANTATION ANTIGEN P35B AA421687  |
| 91  | GENE10X  | GF200:96(11F5):384(3L10)   | CHLORIDE CHANNEL, NUCLEOTIDE-SENSITIVE, 1A T52435  |
| 92  | GENE337X | GF201:96(94A5):384(12B9)   | KIAA0429 GENE PRODUCT AA676805   |
| 93  | GENE242X | GF201:96(66D6):384(23H11)  | 504372 AA142842  |
| 94  | GENE213X | GF201:96(56A5):384(21A10)  | RETINOIC ACID RECEPTOR RESPONDER (TAZAROTENE INDUCED) 3 W47350   |
| 95  | GENE45X  | GF200:96(15C9):384(4F18)   | TRANSPORTER 1, ABC (ATP BINDING CASSETTE) AA487637   |
| 96  | GENE49X  | GF200:96(15H8):384(4P16)   | ESTS, HIGHLY SIMILAR TO SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 1-ALPHA/BETA [H.SAPIENS] AA486367   |
| 97  | GENE494X | PEROU:96(9G3):384(18N6)    | SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 1-ALPHA/BETA AA079495   |
| 98  | GENE493X | PEROU:96(9G2):384(18N4)    | SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 1-ALPHA/BETA AA076085   |
| 99  | GENE318X | GF201:96(90E5):384(11J9)   | BONE MARROW STROMAL CELL ANTIGEN 2 AA485371  |
| 100 | GENE376X | GF201:96(98F10):384(13L19) | INTERFERON-INDUCED PROTEIN 41, 30KD R54613   |
| 101 | GENE71X  | GF200:96(18H7):384(5O14)   | INTERFERON-INDUCED PROTEIN 41, 30KD T62627   |
| 102 | GENE305X | GF201:96(88E11):384(11I22) | INTERFERON-INDUCED PROTEIN 17 AA419251   |
| 103 | GENE148X | GF200:96(4A8):384(1B15)    | HUMAN MRNA FOR 56-KDA PROTEIN INDUCED BY INTERFERON AA489743   |
| 104 | GENE61X  | GF200:96(17H9):384(5O17)   | INTERFERON, ALPHA-INDUCIBLE PROTEIN (CLONE IFI-6-16) AA448478  |
| 105 | GENE492X | PEROU:96(9G1):384(18N2)    | INTERFERON, ALPHA-INDUCIBLE PROTEIN (CLONE IFI-6-16) AA075725  |
| 106 | GENE116X | GF200:96(26C8):384(7E16)   | INTERFERON, ALPHA-INDUCIBLE PROTEIN (CLONE IFI-6-16) AA432030  |

Table 6

|     |          |                             |  |
|-----|----------|-----------------------------|--|
| 107 | GENE309X | GF201:96(88F1):384(11K2)    | INTERFERON-STIMULATED PROTEIN, 15 KDA AA406020   |
| 108 | GENE55X  | GF200:96(17C9):384(5E17)    | MYXOVIRUS (INFLUENZA) RESISTANCE 1, HOMOLOG OF MURINE (INTERFERON-INDUCIBLE PROTEIN P78) AA456886  |
| 109 | GENE310X | GF201:96(88F3):384(11K6)    | INTERFERON, ALPHA-INDUCIBLE PROTEIN 27 AA157813  |
| 110 | GENE100X | GF200:96(24D3):384(6H5)     | GLUTAMIC-OXALOACETIC TRANSAMINASE 2, MITOCHONDRIAL (ASPARTATE AMINOTRANSFERASE 2) AA487739   |
| 111 | GENE406X | GF202:96(114E5):384(16I10)  | 509462 AA056377  |
| 112 | GENE489X | PEROU:96(9D8):384(18H16)    | 416386 W86859  |
| 113 | GENE11X  | GF200:96(11G1):384(3N2)     | ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS] H97778   |
| 114 | GENE205X | GF201:96(102D2):384(14H3)   | 85804 T72068   |
| 115 | GENE432X | PEROU:96(2H1):384(19O2)     | KIAA0182 A1023801  |
| 116 | GENE442X | PEROU:96(GA8):384(20A16)    | HOMO SAPIENS MRNA; CDNA DKFZP586C201 (FROM CLONE DKFZP586C201) R12563  |
| 117 | GENE413X | GF202:96(116D8):384(16H15)  | HOMO SAPIENS MRNA FOR HYPOTHETICAL PROTEIN AA487488  |
| 118 | GENE477X | PEROU:96(8E4):384(20J7)     | CELLULAR RETINOIC ACID-BINDING PROTEIN 2 AA036986  |
| 119 | GENE419X | PEROU:96(10D1):384(18H1)    | CELLULAR RETINOIC ACID-BINDING PROTEIN 2 AA036987  |
| 120 | GENE107X | GF200:96(25E7):384(7I13)    | CELLULAR RETINOIC ACID-BINDING PROTEIN 2 AA598508  |
| 121 | GENE417X | PEROU:96(10C10):384(18F19)  | PLACENTAL BIKUNIN (KUNITZ-TYPE SERINE PROTEASE INHIBITOR) AA031287   |
|     |          |                             | HUMAN DNA SEQUENCE FROM CLONE 431H6 ON CHROMOSOME 16. CONTAINS A NOVEL GENE WITH SOME HOMOLOGY TO MOUSE HN1 (HEMATOLOGICAL AND NEUROLOGICAL EXPRESSED SEQUENCE 1) DOWNSTREAM OF A PUTATIVE CPG ISLAND. CONTAINS ESTS AND GSSS AA045658 |
| 122 | GENE261X | GF201:96(80F11):384(9K22)   | KERATIN 18 AA070385  |
| 123 | GENE433X | PEROU:96(3B1):384(19D2)     | KERATIN 8 AA598517   |
| 124 | GENE59X  | GF200:96(17G6):384(5M11)    | 44292 H06273   |
| 125 | GENE414X | GF202:96(160G7):384(17N13)  | TUMOR PROTEIN D52 AA459318   |
| 126 | GENE90X  | GF200:96(22E5):384(6I10)    | PROTEIN KINASE, AMP-ACTIVATED, BETA 2 NON-CATALYTIC SUBUNIT N78582   |
| 127 | GENE210X | GF201:96(55F6):384(21K11)   | HOMO SAPIENS 14-3-3 PROTEIN MRNA, COMPLETE CDS AA609598  |
| 128 | GENE219X | GF201:96(57D11):384(21H22)  | 124781 R01118  |
| 129 | GENE0X   | GF200:96(10A1):384(3A2)     | 365536 AA009596  |
| 130 | GENE227X | GF201:96(59D2):384(22G3)    | HOMO SAPIENS MRNA; CDNA DKFZP564H0223 (FROM CLONE DKFZP564H0223) AA160498  |
| 131 | GENE394X | GF202:96(111G2):384(15N4)   | CALMODULIN 1 (PHOSPHORYLASE KINASE, DELTA) R76554  |
| 132 | GENE226X | GF201:96(59C9):384(22E17)   | E2F TRANSCRIPTION FACTOR 5, P130-BINDING AA455521  |
| 133 | GENE352X | GF201:96(96B1):384(13C2)    | 530722 AA069820  |
| 134 | GENE495X | PEROU:96(9G5):384(18N10)    | ATPASE, H+ TRANSPORTING, LYSOSOMAL (VACUOLAR PROTON PUMP) 21KD AA480826  |
| 135 | GENE159X | GF200:96(5F11):384(2K21)    | 491778 AA115275  |
| 136 | GENE235X | GF201:96(64H11):384(23O22)  | LYSOPHOSPHOLIPASE 1 H00817   |
| 137 | GENE4X   | GF200:96(10D5):384(3G10)    | ESTS, WEAKLY SIMILAR TO KIAA0108 [H.SAPIENS] AA033947  |
| 138 | GENE457X | PEROU:96(6F3):384(20K6)     | ESTS, WEAKLY SIMILAR TO KIAA0108 [H.SAPIENS] AA600214  |
| 139 | GENE399X | GF202:96(112E11):384(15J21) | GAMMA-GLUTAMYL HYDROLASE (CONJUGASE, FOLYLPOLYGLUTAMAGLUTAMYL HYDROLASE) AA455800  |
| 140 | GENE173X | GF200:96(7E12):384(2J24)    | HOMO SAPIENS CLONE 23856 UNKNOWN MRNA, PARTIAL CDS AA487428  |
| 141 | GENE375X | GF201:96(98D9):384(13H17)   |  |

Table 6

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| 142 | GENE158X | GF200:96(5D4):384(2G7)      | NUCLEOLAR PROTEIN P40 R45255  |
| 143 | GENE92X  | GF200:96(22H6):384(6O12)    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, Y BOX-BINDING PROTEIN I; DNA-BINDING PROTEIN B AA599175   |
| 144 | GENE143X | GF200:96(3C3):384(1F6)      | PEPTIDYLPROLYL ISOMERASE F (CYCLOPHILIN F) H05580   |
| 145 | GENE397X | GF202:96(112C10):384(15F19) | ESTS, WEAKLY SIMILAR TO R07G3.8 [C.ELEGANS] AA173423  |
| 146 | GENE427X | PEROU:96(2A10):384(19A20)   | TRANSFERRIN RECEPTOR (P90, CD71) N27985   |
| 147 | GENE299X | GF201:96(88A12):384(11A24)  | ESTS, HIGHLY SIMILAR TO MITOTIC KINESIN-LIKE PROTEIN-1 [H.SAPIENS] AA454098   |
| 148 | GENE42X  | GF200:96(15B4):384(4D8)     | V-MYB AVIAN MYELOBLASTOSIS VIRAL ONCOGENE HOMOLOG-LIKE 2 AA456878   |
| 149 | GENE272X | GF201:96(82D11):384(9H21)   | 430186 AA010188   |
| 150 | GENE47X  | GF200:96(15E12):384(4J24)   | THYMOSIN, BETA 10 AA486085  |
| 151 | GENE390X | GF202:96(110D6):384(15G12)  | ECTODERMAL-NEURAL CORTEX (WITH BTB-LIKE DOMAIN) H72122  |
| 152 | GENE389X | GF202:96(110D4):384(15G8)   | HOMO SAPIENS MRNA; CDNA DKFZP434F152 (FROM CLONE DKFZP434F152) AA186605   |
| 153 | GENE335X | GF201:96(93G12):384(12N24)  | HOMO SAPIENS MRNA FOR LSM1 PROTEIN AA628430   |
| 154 | GENE194X | GF201:96(101A7):384(14B14)  | 74223 T48412  |
| 155 | GENE189X | GF201:96(100A10):384(14A20) | 80292 T64433  |
| 156 | GENE12X  | GF200:96(11G7):384(3N14)    | TRANSCRIPTION FACTOR AP-2 BETA (ACTIVATING ENHANCER-BINDING PROTEIN 2 BETA) AA018906  |
| 157 | GENE286X | GF201:96(86B7):384(10D13)   | URACIL-DNA GLYCOSYLASE 2 AA425900   |
| 158 | GENE251X | GF201:96(68D5):384(24G10)   | 415229 W91879   |
| 159 | GENE233X | GF201:96(64D4):384(23G8)    | HOMO SAPIENS MRNA; CDNA DKFZP586J2118 (FROM CLONE DKFZP586J2118) R98407   |
| 160 | GENE485X | PEROU:96(9C1):384(18F2)     | 297604 N69835   |
| 161 | GENE473X | PEROU:96(8C4):384(20F7)     | 297604 N69835   |
| 162 | GENE152X | GF200:96(4E5):384(1J9)      | POTASSIUM CHANNEL, SUBFAMILY K, MEMBER 1 (TWIK-1) N62620  |
| 163 | GENE264X | GF201:96(80H6):384(9O12)    | 124447 R01094   |
| 164 | GENE135X | GF200:96(2B10):384(1C20)    | S100 CALCIUM-BINDING PROTEIN P R32952   |
| 165 | GENE197X | GF201:96(101D6):384(14H12)  | 68818 T53431  |
| 166 | GENE314X | GF201:96(89C12):384(11F24)  | OCCLUDIN H94471   |
| 167 | GENE60X  | GF200:96(17H1):384(5O1)     | JUNCTION PLAKOGLOBIN R06417   |
| 168 | GENE422X | PEROU:96(10E9):384(18I17)   | HOMO SAPIENS BREAST CANCER PUTATIVE TRANSCRIPTION FACTOR (ZABC1) MRNA, COMPLETE CDS AA460802  |
| 169 | GENE421X | PEROU:96(10E8):384(18I15)   | HOMO SAPIENS BREAST CANCER PUTATIVE TRANSCRIPTION FACTOR (ZABC1) MRNA, COMPLETE CDS AA782528  |
| 170 | GENE9X   | GF200:96(11D4):384(3H8)     | LAMININ, ALPHA 5 AA459519   |
| 171 | GENE77X  | GF200:96(19F4):384(5L8)     | 773233 AA425259   |
| 172 | GENE411X | GF202:96(116B10):384(16D19) | ESTS, WEAKLY SIMILAR TO KIAA0631 PROTEIN [H.SAPIENS] AA497001   |
| 173 | GENE153X | GF200:96(4F3):384(1L5)      | TRANSCRIPTION FACTOR AP-2 GAMMA (ACTIVATING ENHANCER-BINDING PROTEIN 2 GAMMA) AA399334  |
| 174 | GENE246X | GF201:96(66H1):384(23P1)    | KIAA0626 GENE PRODUCT N62737  |
| 175 | GENE270X | GF201:96(82B4):384(9D7)     | HUMAN DNA SEQUENCE FROM CLONE 71L16 ON CHROMOSOME XP11. CONTAINS A PROBABLE ZINC FINGER PROTEIN (PSEUDO)GENE, AN UNKNOWN PUTATIVE GENE, A PSEUDOGENE WITH HIGH SIMILARITY TO PART OF ANTIGEN KI-67, A PUTATIVE CHONDROITIN 6-SULFOTRAN W47116 |

Table 6

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| 176 | GENE387X | GF202:96(110A5):384(15A10)  | HOMO SAPIENS CLONE 23876 NEURONAL OLFACTOMEDIN-RELATED ER LOCALIZED PROTEIN MRNA, PARTIAL CDS H23124 |
| 177 | GENE234X | GF201:96(64D5):384(23G10)   | 488431 AA047441  |
| 178 | GENE334X | GF201:96(93E11):384(12J22)  | 79935 T61475   |
| 179 | GENE21X  | GF200:96(12F4):384(3L7)     | FUMARYLACETOACETATE H44956   |
| 180 | GENE160X | GF200:96(5H10):384(20I9)    | TRANSDUCER OF ERBB-2 AA490213  |
| 181 | GENE146X | GF200:96(3D6):384(1H12)     | DIAPHORASE (NADH/NADPH) (CYTOCHROME B-5 REDUCTASE) AA455538  |
| 182 | GENE294X | GF201:96(87E9):384(11I17)   | DNA SEGMENT, SINGLE COPY PROBE LNS-CAI/LNS-CAII (DELETED IN POLYPOSIS H99681)                        |
| 183 | GENE30X  | GF200:96(13D4):384(4G7)     | CYTOCHROME B-5 R92281  |
| 184 | GENE491X | PEROU:96(9F3):384(18L6)     | 299664 N75017  |
| 185 | GENE265X | GF201:96(81D9):384(9H18)    | HOMO SAPIENS MRNA; CDNA DKFZP564J142 (FROM CLONE DKFZP564J142) N75017                                |
| 186 | GENE247X | GF201:96(66H8):384(23P15)   | 504678 AA142942  |
| 187 | GENE326X | GF201:96(91H4):384(12O7)    | KYNURENINASE; L-KYNURENINE HYDROLASE H87471  |
| 188 | GENE41X  | GF200:96(14H3):384(4O6)     | ACTIVATED LEUCOCYTE CELL ADHESION MOLECULE R13558  |
| 189 | GENE103X | GF200:96(24G9):384(6N17)    | ELECTRON-TRANSFER-FLAVOPROTEIN, ALPHA POLYPEPTIDE (GLUTARIC ACIDURIA II) T58002                      |
| 190 | GENE119X | GF200:96(26F1):384(7K2)     | 130843 R22306  |
| 191 | GENE379X | GF201:96(99B8):384(14C15)   | PARAOXONASE 3 T57069   |
| 192 | GENE121X | GF200:96(26G9):384(7M18)    | PARAOXONASE 3 R95740   |
| 193 | GENE348X | GF201:96(95G5):384(13M9)    | GAP JUNCTION PROTEIN, BETA 1, 32KD (CONNEXIN 32, CHARCOT-MARIE-TOOTH NEUROPATHY, X-LINKED) N62394    |
| 194 | GENE366X | GF201:96(97B6):384(13D12)   | BONE MORPHOGENETIC PROTEIN 4 AA463225  |
| 195 | GENE206X | GF201:96(55A8):384(21A15)   | ACYL-COENZYME A OXIDASE 2, BRANCHED CHAIN T71782   |
| 196 | GENE141X | GF200:96(32G3):384(8N5)     | ESTS, HIGHLY SIMILAR TO AQUAPORIN 3 [H.SAPIENS] R91904   |
| 197 | GENE322X | GF201:96(91A4):384(12A7)    | 470279 AA028905  |
| 198 | GENE79X  | GF200:96(1A9):384(1A17)     | WINGLESS-TYPE MMTV INTEGRATION SITE FAMILY, MEMBER 5A W49672   |
| 199 | GENE38X  | GF200:96(14G12):384(4M24)   | 298155 N70794  |
| 200 | GENE388X | GF201:96(94E8):384(12I15)   | HUMAN HOX2.2 GENE FOR A HOMEBOX PROTEIN AA610066   |
| 201 | GENE68X  | GF200:96(18G2):384(5M4)     | HUMAN PROTEINASE ACTIVATED RECEPTOR-2 MRNA, 3'UTR AA454652   |
| 202 | GENE461X | PEROU:96(7B4):384(20D8)     | 176461 H43515  |
| 203 | GENE463X | PEROU:96(7B6):384(20D12)    | 364302 AA022462  |
| 204 | GENE73X  | GF200:96(19B1):384(5D2)     | CREATINE KINASE, MITOCHONDRIAL 1 (UBIQUITOUS) AA019482   |
| 205 | GENE358X | GF201:96(96F4):384(13K8)    | CHROMOGRAFIN B (SECRETORANIN 1) W37769   |
| 206 | GENE95X  | GF200:96(23H7):384(6P14)    | M-PHASE PHOSPHOPROTEIN 6 AA478524  |
| 207 | GENE203X | GF201:96(102B12):384(14D23) | 83297 T68333   |
| 208 | GENE154X | GF200:96(4G1):384(1N1)      | 3-OXOACID COA TRANSFERASE R40897   |
| 209 | GENE207X | GF201:96(55D8):384(21G15)   | MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE AA136040   |
| 210 | GENE229X | GF201:96(62H2):384(22P3)    | 302025 N89753  |
| 211 | GENE28X  | GF200:96(13C8):384(4E15)    | ESTS, WEAKLY SIMILAR TO MEL-13A PROTEIN [M.MUSCULUS] AA464421  |
| 212 | GENE260X | GF201:96(79G4):384(9M7)     | ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY SB WARNING ENTRY !!!! [H.SAPIENS] AA454610                |



Table 6

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|-----|----------|----------------------------|---|--|
| 213 | GENE241X | GF201:96(66D12):384(23H23) | 418240 W90241   |  |
| 214 | GENE289X | GF201:96(86H1):384(10P1)   | S100 CALCIUM-BINDING PROTEIN A8 (CALGRANULIN A) AA086471  |  |
| 215 | GENE288X | GF201:96(86G1):384(10N1)   | ESTS, HIGHLY SIMILAR TO STAT4 [M.MUSCULUS] R91570   |  |
| 216 | GENE223X | GF201:96(58F9):384(21L17)  | UNTITLED R16098   |  |
| 217 | GENE296X | GF201:96(87H11):384(11O21) | MATRIX METALLOPROTEINASE 15 (MEMBRANE-INSERTED) AA443300  |  |
| 218 | GENE486X | PEROU:96(9C11):384(18F22)  | ERBB-2 RECEPTOR PROTEIN-TYROSINE KINASE PRECURSOR AA025141  |  |
| 219 | GENE428X | PEROU:96(2F1):384(19K2)    | ERBB2 AA481939  |  |
| 220 | GENE420X | PEROU:96(10E11):384(18J21) | ERBB2-POLYA X03363  |  |
| 221 | GENE43X  | GF200:96(15B6):384(4D12)   | V-ERB-B2 AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL ONCOGENE HOMOLOG 2 (NEURO/GLOBLASTOMA DERIVED ONCOGENE HOMOLOG) AA443351 |  |
| 222 | GENE455X | PEROU:96(6E5):384(20I10)   | V-ERB-B2 AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL ONCOGENE HOMOLOG 2 (NEURO/GLOBLASTOMA DERIVED ONCOGENE HOMOLOG) AA025141 |  |
| 223 | GENE312X | GF201:96(88H2):384(11O4)   | GROWTH FACTOR RECEPTOR-BOUND PROTEIN 7 H53703   |  |
| 224 | GENE97X  | GF200:96(24B4):384(6D7)    | STEROIDOGENIC ACUTE REGULATORY PROTEIN RELATED AA504710   |  |
| 225 | GENE468X | PEROU:96(8A1):384(20B1)    | 68400 T57034  |  |
| 226 | GENE440X | PEROU:96(6A1):384(20A2)    | 68400 T57034  |  |
| 227 | GENE466X | PEROU:96(7F8):384(20L16)   | SWI/SNF RELATED, MATRIX ASSOCIATED, ACTIN DEPENDENT REGULATOR OF CHROMATIN, SUBFAMILY E, MEMBER 1 W63613              |  |
| 228 | GENE98X  | GF200:96(24B5):384(6D9)    | TNF RECEPTOR-ASSOCIATED FACTOR 4 AA598826   |  |
| 229 | GENE282X | GF201:96(84D8):384(10G16)  | 347348 W81186   |  |
| 230 | GENE113X | GF200:96(26C12):384(7E24)  | FLOTILLIN 2 R73545  |  |
| 231 | GENE78X  | GF200:96(19H6):384(5P12)   | TGFB1-INDUCED ANTI-APOPTOTIC FACTOR 1 AA446222  |  |
| 232 | GENE166X | GF200:96(6H10):384(20Z0)   | KIAA0130 GENE PRODUCT N76581  |  |
| 233 | GENE150X | GF200:96(4B7):384(1D13)    | ESTS, HIGHLY SIMILAR TO INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 2 PRECURSOR [H.SAPIENS] H79047                     |  |
| 234 | GENE490X | PEROU:96(9E8):384(18J16)   | INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 5 (IGFBP5) AA054451  |  |
| 235 | GENE171X | GF200:96(7D2):384(2H4)     | HUMAN INSULIN-LIKE GROWTH FACTOR-BINDING PROTEIN 5 (IGFBP5) MRNA H08560   |  |
| 236 | GENE306X | GF201:96(88E3):384(11I6)   | HUMAN INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 5 (IGFBP5) MRNA T52830   |  |
| 237 | GENE1X   | GF200:96(10A12):384(3A24)  | PHOSPHOSERINE PHOSPHATASE-LIKE W05628   |  |
| 238 | GENE137X | GF200:96(30G3):384(8M6)    | 122982 R00332   |  |
| 239 | GENE109X | GF200:96(25G2):384(7M3)    | CYTOCHROME C OXIDASE SUBUNIT VIC AA456931   |  |
| 240 | GENE199X | GF201:96(101H5):384(14P10) | 78921 T60482  |  |
| 241 | GENE32X  | GF200:96(13F4):384(4K7)    | 134783 R31701   |  |
| 242 | GENE23X  | GF200:96(12G2):384(3N3)    | FIBRONECTIN 1 R62612  |  |
| 243 | GENE221X | GF201:96(58A11):384(21B21) | H.SAPIENS MRNA FOR INHIBIN BETA(A) SUBUNIT N27159   |  |
| 244 | GENE169X | GF200:96(7C3):384(2F6)     | CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE (CAM KINASE) II GAMMA T96083  |  |
| 245 | GENE402X | GF202:96(114A5):384(16A10) | 839904 AA490059   |  |
| 246 | GENE330X | GF201:96(92E7):384(12I14)  | MEMBRANE FATTY ACID (LIPID) DESATURASE W49667   |  |
| 247 | GENE370X | GF201:96(97E4):384(13J8)   | RIBOSOMAL PROTEIN L26 AA633569  |  |

Table 6

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| 248 | GENE216X | GF201:96(56E2):384(2114)   | HUMAN CHROMOSOME 16 BAC CLONE CIT9875K-A-362G6 N75498  |
| 249 | GENE145X | GF200:96(3C7):384(1F14)    | NON-SPECIFIC CROSS REACTING ANTIGEN AA054073   |
| 250 | GENE396X | GF202:96(112A1):384(15B1)  | 261194 H98215  |
| 251 | GENE278X | GF201:96(83E6):384(10I11)  | 503602 AA131299  |
| 252 | GENE382X | GF201:96(99G5):384(14M9)   | 50114 H16743   |
| 253 | GENE377X | GF201:96(99A4):384(14A7)   | ESTS, HIGHLY SIMILAR TO CYTOPLASMIC DYNEIN LIGHT CHAIN 1 [H.SAPIENS] AA401429                    |
| 254 | GENE188X | GF200:96(9H12):384(30Z3)   | STEARYL-COA DESATURASE (DELTA-9-DESATURASE) R00707   |
| 255 | GENE168X | GF200:96(7A6):384(2B12)    | LYSOSOMAL-ASSOCIATED MULTISPANNING MEMBRANE PROTEIN-5 AA410265                                   |
| 256 | GENE66X  | GF200:96(10G8):384(3M16)   | ACTIN RELATED PROTEIN 2/3 COMPLEX, SUBUNIT 5 (16 KD) W55964                                      |
| 257 | GENE269X | GF201:96(82B11):384(9D21)  | 345056 W72798  |
| 258 | GENE273X | GF201:96(82F1):384(9L1)    | 487831 AA045083  |
| 259 | GENE35X  | GF200:96(14B7):384(4C14)   | CATHEPSIN K (PYCNOXYSTOSIS) R01515   |
| 260 | GENE244X | GF201:96(66F1):384(23L1)   | ESTS, WEAKLY SIMILAR TO MACROPHAGE LECTIN 2 [H.SAPIENS] N53421                                   |
| 261 | GENE354X | GF201:96(96C1):384(13E2)   | DERMATOPONTIN R48303   |
| 262 | GENE429X | PEROU:96(2F2):384(19K4)    | TISSUE INHIBITOR OF METALLOPROTEINASE 3 (SORSBY FUNDUS DYSTROPHY, PSEUDOINFLAMMATORY) - AA445923 |
| 263 | GENE435X | PEROU:96(3B9):384(19D18)   | INTEGRIN, ALPHA 2 (CD49B, ALPHA 2 SUBUNIT OF VLA-2 RECEPTOR) AA069096                            |
| 264 | GENE149X | GF200:96(4B4):384(1D7)     | INTEGRIN, ALPHA 2 (CD49B, ALPHA 2 SUBUNIT OF VLA-2 RECEPTOR) AA463610                            |
| 265 | GENE313X | GF201:96(89A1):384(11B2)   | SER-THR PROTEIN KINASE RELATED TO THE MYOTONIC DYSTROPHY PROTEIN KINASE N35241                   |
| 266 | GENE129X | GF200:96(28E3):384(7J5)    | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 5262644) [H.SAPIENS] N91426                        |
| 267 | GENE384X | GF202:96(109C9):384(15E17) | MICROTUBULE-ASSOCIATED PROTEIN 1B AA219045   |
| 268 | GENE266X | GF201:96(81E12):384(9J24)  | 259996 N32611  |
| 269 | GENE215X | GF201:96(56C11):384(21E22) | ESTS, WEAKLY SIMILAR TO !!! ALU SUBFAMILY SB1 WARNING ENTRY !!! [H.SAPIENS] N21103               |
| 270 | GENE276X | GF201:96(83A5):384(10A9)   | 141726 R69584  |
| 271 | GENE410X | GF202:96(115D7):384(16H14) | 842848 AA486281  |
| 272 | GENE212X | GF201:96(55G4):384(21M7)   | C3H-TYPE ZINC FINGER PROTEIN; SIMILAR TO D. MELANOGASTER MUSCLEBLIND B PROTEIN W16832            |
| 273 | GENE144X | GF200:96(3C6):384(1F12)    | NUCLEAR FACTOR 1/X (CCAAT-BINDING TRANSCRIPTION FACTOR) AA406269                                 |
| 274 | GENE182X | GF200:96(9A3):384(3A5)     | ESTS, HIGHLY SIMILAR TO LAR-INTERACTING PROTEIN 1A [H.SAPIENS] N52679                            |
| 275 | GENE94X  | GF200:96(23F7):384(6L14)   | FAS (TNFRSF6)-ASSOCIATED VIA DEATH DOMAIN AA430751   |
| 276 | GENE263X | GF201:96(80H4):384(9O8)    | ESTS, WEAKLY SIMILAR TO STRABISMUS [D.MELANOGASTER] T95333                                       |
| 277 | GENE275X | GF201:96(82H5):384(9P9)    | HOMO SAPIENS CLONE 23704 MRNA SEQUENCE N70212  |
| 278 | GENE111X | GF200:96(26B7):384(7C14)   | RAB6, MEMBER RAS ONCOGENE FAMILY H20138  |
| 279 | GENE164X | GF200:96(6D7):384(2G14)    | HUMAN MRNA FOR KIAA0280 GENE, PARTIAL CDS AA428746   |
| 280 | GENE245X | GF201:96(66F4):384(23L7)   | 501731 AA127861  |
| 281 | GENE183X | GF200:96(9A4):384(3A7)     | V-MYC AVIAN MYELOCTYMATOSIS VIRAL ONCOGENE HOMOLOG 1, LUNG CARCINOMA DERIVED R62862              |
| 282 | GENE130X | GF200:96(29B7):384(8C13)   | 66864 T64994   |
| 283 | GENE85X  | GF200:96(21G10):384(6M19)  | PATERNALLY EXPRESSED GENE 3 AA459941   |
| 284 | GENE139X | GF200:96(31D12):384(8H24)  | ESTS, WEAKLY SIMILAR TO PLACENTAL RIBONUCLEASE INHIBITOR [H.SAPIENS] N53214                      |
| 285 | GENE478X | PEROU:96(8H2):384(20P3)    | N-MYC AA101678   |

Table 6

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| 286 | GENE408X | GF202:96(114H8):384(16O16)  | KDEL (LYS-ASP-GLU-LEU) ENDOPLASMIC RETICULUM PROTEIN RETENTION RECEPTOR 3 AA181085  |
| 287 | GENE190X | GF201:96(100B1):384(14C2)   | 51344 H21040  |
| 288 | GENE13X  | GF200:96(11H12):384(3P24)   | MENINGIOMA (DISRUPTED IN BALANCED TRANSLOCATION) 1 R59212   |
| 289 | GENE295X | GF201:96(87H1):384(11O1)    | MONOAMINE OXIDASE B AA682423  |
| 290 | GENE170X | GF200:96(7D12):384(2H24)    | NEUREGULIN 1 R72075   |
| 291 | GENE7X   | GF200:96(10H9):384(3O18)    | HEXABRACHION (TENASCIN C, CYTOTACTIN) T77595  |
| 292 | GENE484X | PEROU:96(9B8):384(18D16)    | TRANSFORMING GROWTH FACTOR, BETA 2 N48082   |
| 293 | GENE33X  | GF200:96(13H3):384(4O5)     | CARBONIC ANHYDRASE II H23187  |
| 294 | GENE361X | GF201:96(96G10):384(13M20)  | CARNITINE ACETYLTRANSFERASE AA621218  |
| 295 | GENE450X | PEROU:96(6C7):384(20E14)    | RAS HOMOLOG GENE FAMILY, MEMBER B H89046  |
| 296 | GENE82X  | GF200:96(1F7):384(1K13)     | RAS HOMOLOG GENE FAMILY, MEMBER B AA495846  |
| 297 | GENE185X | GF200:96(9E4):384(3I7)      | B-CELL TRANSLOCATION GENE 2 (PHEOCHROMOCYTOMA CELL-3) H69582  |
| 298 | GENE239X | GF201:96(65F2):384(23L4)    | HOMO SAPIENS MRNA; CDNA DKFZP586B2420 (FROM CLONE DKFZP586B2420) W58343   |
| 299 | GENE395X | GF202:96(11H12):384(15P24)  | ESTS, HIGHLY SIMILAR TO SCK [H.SAPIENS] H10072  |
| 300 | GENE24X  | GF200:96(12G3):384(3N5)     | FIBROMODULIN AA486471   |
| 301 | GENE50X  | GF200:96(16B4):384(4D7)     | RIBONUCLEASE L (2',5'-OLIGOADENYLYLATE SYNTHETASE-DEPENDENT) T60223   |
| 302 | GENE167X | GF200:96(7A12):384(2B24)    | ACTIN-BINDING LIM PROTEIN AA406601  |
| 303 | GENE124X | GF200:96(27B1):384(7D2)     | FLAVIN CONTAINING MONOOXYGENASE 3 H71847  |
| 304 | GENE177X | GF200:96(8C11):384(2F21)    | 179276 H50323   |
| 305 | GENE224X | GF201:96(58G10):384(21N19)  | SERUM-INDUCIBLE KINASE AA460152   |
| 306 | GENE364X | GF201:96(97B1):384(13D2)    | WASP FAMILY VERRORLIN-HOMOLOGOUS PROTEIN 3 AA629542   |
|     |          |                             | HOMO SAPIENS DNA SEQUENCE FROM COSMID ICK0721Q ON CHROMOSOME 6. CONTAINS A 60S RIBOSOMAL PROTEIN L35A LIKE PSEUDOGENE, A GENE CODING FOR A 60S RIBOSOMAL PROTEIN L12 LIKE PROTEIN IN AN INTRON OF THE HSET GENE CODING FOR A KINESIN AA457543 |
| 307 | GENE407X | GF202:96(114G1):384(16M2)   | 77911 T61269  |
| 308 | GENE192X | GF201:96(100H6):384(14O12)  | 300038 N78909   |
| 309 | GENE248X | GF201:96(67C6):384(24E11)   | 78736 T61888  |
| 310 | GENE405X | GF202:96(114C7):384(16E14)  | ENDOTHELIN RECEPTOR TYPE B N29914   |
| 311 | GENE220X | GF201:96(57D6):384(21H12)   | 782730 AA447978   |
| 312 | GENE258X | GF201:96(79E10):384(9I19)   | APOLIPOPROTEIN D AA457084   |
| 313 | GENE424X | PEROU:96(1C10):384(19E19)   | APOLIPOPROTEIN D H15842   |
| 314 | GENE36X  | GF200:96(14D12):384(4G24)   | SEMA DOMAIN, IMMUNOGLOBULIN DOMAIN (IG), SHORT BASIC DOMAIN, SECRETED, (SEMAPHORIN) 3C AA042990   |
| 315 | GENE315X | GF201:96(89F3):384(11L6)    | ESTS, WEAKLY SIMILAR TO F56A11.5 [C.ELEGANS] T61938   |
| 316 | GENE200X | GF201:96(102A3):384(14B5)   | LAMININ, ALPHA 3 (NICEIN (150KD), KALININ (165KD), BM600 (150KD), EPILEGRIN) AA001432   |
| 317 | GENE300X | GF201:96(88B12):384(11C24)  | 46694 H10192  |
| 318 | GENE204X | GF201:96(102D12):384(14H23) | MONOAMINE OXIDASE A AA011096  |
| 319 | GENE297X | GF201:96(87H2):384(11O3)    | ALDEHYDE DEHYDROGENASE 1, SOLUBLE AA664101  |
| 320 | GENE371X | GF201:96(97E5):384(13J10)   | 428431 AA004415   |
| 321 | GENE418X | PEROU:96(10C7):384(18F13)   |   |

Table 6

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| 322 | GENE281X | GF201:96(84B4):384(10C8)    | INTEGRAL MEMBRANE PROTEIN 2C N53447  |
| 323 | GENE446X | PEROU:96(6B5):384(20C10)    | HUMAN IG J CHAIN GENE H24896   |
| 324 | GENE480X | PEROU:96(9A9):384(18B18)    | IMMUNOGLOBULIN J CHAIN H24896  |
| 325 | GENE63X  | GF200:96(18A10):384(5A20)   | HUMAN IG J CHAIN GENE T70057   |
| 326 | GENE436X | PEROU:96(3E4):384(19J8)     | CD36 ANTIGEN (COLLAGEN TYPE I RECEPTOR, THROMBOSPONDIN RECEPTOR) R09416                      |
| 327 | GENE34X  | GF200:96(14B4):384(4C8)     | CD36 ANTIGEN (COLLAGEN TYPE I RECEPTOR, THROMBOSPONDIN RECEPTOR) N39161                      |
| 328 | GENE398X | GF202:96(112C8):384(15F15)  | KTAA0569 GENE PRODUCT N45100   |
| 329 | GENE285X | GF201:96(85H7):384(10P14)   | V-MAF MUSCULOPONEUROTIC FIBROSARCOMA (AVIAN) ONCOGENE HOMOLOG AA043501                       |
| 330 | GENE157X | GF200:96(5C8):384(2E15)     | PEROXISOME PROLIFERATIVE ACTIVATED RECEPTOR, GAMMA AA088517                                  |
| 331 | GENE363X | GF201:96(96H9):384(13O18)   | TRANSMEMBRANE 4 SUPERFAMILY MEMBER 2 N93505  |
| 332 | GENE8X   | GF200:96(11D12):384(3H24)   | SMALL INDUCIBLE CYTOKINE SUBFAMILY A (CYS-CYS), MEMBER 14 R96668                             |
| 333 | GENE62X  | GF200:96(18A1):384(5A2)     | INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 6 AA478724  |
| 334 | GENE120X | GF200:96(26F3):384(7K6)     | PHOSPHATIDIC ACID PHOSPHATASE TYPE 2B T72119   |
| 335 | GENE83X  | GF200:96(21C4):384(6E7)     | PHOSPHATIDIC ACID PHOSPHATASE TYPE 2B T71976   |
| 336 | GENE362X | GF201:96(96G3):384(13M6)    | CAVEOLIN 1, CAVEOLAE PROTEIN, 22KD AA055835  |
| 337 | GENE44X  | GF200:96(15C10):384(4F20)   | TRANSFORMING GROWTH FACTOR, BETA RECEPTOR II (70-80KD) AA487034                              |
| 338 | GENE64X  | GF200:96(18A3):384(5A6)     | HUMAN KRUEPPEL-RELATED ZINC FINGER PROTEIN (H-PLK) MRNA, COMPLETE CDS N54596                 |
| 339 | GENE184X | GF200:96(9A5):384(3A9)      | HUMAN KRUEPPEL-RELATED ZINC FINGER PROTEIN (H-PLK) MRNA, COMPLETE CDS N54596                 |
| 340 | GENE307X | GF201:96(88E4):384(11I8)    | INSULIN-LIKE GROWTH FACTOR 2 (SOMATOMEDIN A) N74623  |
| 341 | GENE231X | GF201:96(63E2):384(23I3)    | 212489 H68404  |
| 342 | GENE350X | GF201:96(95G9):384(13M17)   | PHOSPHORYLASE, GLYCOGEN; MUSCLE (MCARDLE SYNDROME, GLYCOGEN STORAGE DISEASE TYPE V) AA496032 |
| 343 | GENE298X | GF201:96(87H7):384(11O13)   | MICROFIBRILLAR-ASSOCIATED-PROTEIN 4 AA496022   |
| 344 | GENE401X | GF202:96(113H3):384(16O5)   | ESTS, WEAKLY SIMILAR TO IIII ALU SUBFAMILY J WARNING ENTRY IIII [H.SAPIENS] AA487895         |
| 345 | GENE443X | PEROU:96(6B1):384(20C2)     | CYCLIN-DEPENDENT KINASE INHIBITOR 1C (P57, KIP2) R81336                                      |
| 346 | GENE373X | GF201:96(97H6):384(13P12)   | AQUAPORIN 1 (CHANNEL-FORMING INTEGRAL PROTEIN, 28KD) H24316                                  |
| 347 | GENE193X | GF201:96(100H7):384(14O14)  | 78946 T61792   |
| 348 | GENE70X  | GF200:96(18H1):384(5O2)     | 484535 AA036974  |
| 349 | GENE39X  | GF200:96(14G2):384(4M4)     | ALCOHOL DEHYDROGENASE 2 (CLASS I), BETA POLYPEPTIDE N93428                                   |
| 350 | GENE66X  | GF200:96(18E1):384(5I2)     | FOUR AND A HALF LIM DOMAINS 1 AA456394   |
| 351 | GENE93X  | GF200:96(23A7):384(6B14)    | GLYCEROL-3-PHOSPHATE DEHYDROGENASE 1 (SOLUBLE) AA192547                                      |
| 352 | GENE202X | GF201:96(102A5):384(14B9)   | 85660 T62068   |
| 353 | GENE303X | GF201:96(88D12):384(11G24)  | INTEGRIN, ALPHA 7 AA055979   |
| 354 | GENE112X | GF200:96(26C1):384(7E2)     | RETINOL-BINDING PROTEIN 4, INTERSTITIAL T72220   |
| 355 | GENE301X | GF201:96(88B9):384(11C18)   | LIPOPROTEIN LIPASE AA633835  |
| 356 | GENE388X | GF202:96(110B10):384(15C20) | GLUTATHIONE PEROXIDASE 3 (PLASMA) AA664180   |
| 357 | GENE332X | GF201:96(92H12):384(12O24)  | AQUAPORIN 7 H27752   |
| 358 | GENE460X | PEROU:96(7A10):384(20B20)   | FATTY ACID BINDING PROTEIN 4, ADIPOCYTE A1652163   |
| 359 | GENE456X | PEROU:96(6E7):384(20I14)    | FATTY ACID BINDING PROTEIN 4, ADIPOCYTE AA046090   |

Table 6

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| 360 | GENE133X | GF200:96(29G2):384(8M3)    | 47043 H10721 | HOMO SAPIENS CLONE 23698 MRNA SEQUENCE AA680300  |
| 361 | GENE386X | GF202:96(109G3):384(15W5)  |              | ESTS, MODERATELY SIMILAR TO FAT-SPECIFIC PROTEIN FSP27 [M.MUSCULUS] AA088749   |
| 362 | GENE404X | GF202:96(114B5):384(16C10) |              | HOMO SAPIENS BRAIN MY047 PROTEIN MRNA, COMPLETE CDS T62031   |
| 363 | GENE201X | GF201:96(102A4):384(14B7)  |              | MESENCHYME HOME BOX 1 AA426311   |
| 364 | GENE181X | GF200:96(8H9):384(2P17)    |              | HHCFA78 HOMOLOG AA044633   |
| 365 | GENE458X | PEROU:96(6G3):384(20M6)    |              | ENDOTHELIAL KRUPPEL-LIKE ZINC FINGER PROTEIN H45711  |
| 366 | GENE151X | GF200:96(4E1):384(1J1)     |              | CYCLIN-DEPENDENT KINASE 5, REGULATORY SUBUNIT 1 (P35) AA442853   |
| 367 | GENE355X | GF201:96(96D8):384(13G16)  |              | FB1 MURINE OSTEOSARCOMA VIRAL ONCOGENE HOMOLOG B T62179  |
| 368 | GENE87X  | GF200:96(22B11):384(6C22)  |              | 79412 T57691   |
| 369 | GENE198X | GF201:96(101F5):384(14L10) |              | DUAL SPECIFICITY PHOSPHATASE 6 AA630374  |
| 370 | GENE341X | GF201:96(94G6):384(12N11)  |              | LAMININ, GAMMA 2 (NICEIN (100KD), KALININ (105KD), BM600 (100KD), HERLITZ JUNCTIONAL EPIDERMOLYSIS BULLOSA) AA677534                                 |
| 371 | GENE343X | GF201:96(94H6):384(12P11)  |              | MATRIX METALLOPROTEINASE 14 (MEMBRANE-INSERTED) N33214   |
| 372 | GENE342X | GF201:96(94H5):384(12P9)   |              | COLLAGEN, TYPE XVII, ALPHA 1 H87536  |
| 373 | GENE327X | GF201:96(92B12):384(12C24) |              | CALPONIN 1, BASIC, SMOOTH MUSCLE AA399519  |
| 374 | GENE161X | GF200:96(5H7):384(2013)    |              | PLEIOTROPHIN (HEPARIN BINDING GROWTH FACTOR 8, NEURITE GROWTH-PROMOTING FACTOR 1) AA001449   |
| 375 | GENE462X | PEROU:96(7B5):384(20D10)   |              | PLEIOTROPHIN (HEPARIN BINDING GROWTH FACTOR 8, NEURITE GROWTH-PROMOTING FACTOR 1) AA001449   |
| 376 | GENE52X  | GF200:96(16F12):384(4L23)  |              | 1912786 A1304356   |
| 377 | GENE454X | PEROU:96(6E4):384(20I8)    |              | GELSOLIN (AMYLOIDOSIS, FINNISH TYPE) H72027  |
| 378 | GENE19X  | GF200:96(12E9):384(3J17)   |              | BULLOUS PEMPFIGOID ANTIGEN 1 (230/240KD) H44784  |
| 379 | GENE176X | GF200:96(8C10):384(2F19)   |              | SMALL INDUCIBLE CYTOKINE SUBFAMILY D (CYS-X3-CYS), MEMBER 1 (FRACTALKINE, NEUROTACTIN) R66139  |
| 380 | GENE329X | GF201:96(92B7):384(12C14)  |              | KERATIN 17 aa026642  |
| 381 | GENE488X | PEROU:96(9D1):384(18H2)    |              | KERATIN 17 AA026642  |
| 382 | GENE476X | PEROU:96(8D6):384(20H11)   |              | KERATIN 5 (EPIDERMOLYSIS BULLOSA SIMPLEX DOWLING-MEARA/KOBNER/WIEBER-COCKAYNE TYPES) W72110  |
| 383 | GENE487X | PEROU:96(9C6):384(18F12)   |              | ESTS, HIGHLY SIMILAR TO KERATIN K5, 58K TYPE II, EPIDERMAL W72110  |
| 384 | GENE472X | PEROU:96(8C11):384(20F21)  |              | ESTS, HIGHLY SIMILAR TO PROBABLE ATAXIA-TELANGIECTASIA GROUP D PROTEIN [H.SAPIENS] AA055486  |
| 385 | GENE336X | GF201:96(93G2):384(12N4)   |              | CRYSTALLIN, ALPHA B AA504943   |
| 386 | GENE106X | GF200:96(25C8):384(7E15)   |              | CAVEOLIN 2 T89391  |
| 387 | GENE175X | GF200:96(8B12):384(2D23)   |              | ANNEXIN I (LIPOCORTIN I) H63077  |
| 388 | GENE37X  | GF200:96(14E11):384(4I22)  |              | DYSTROPHIN (MUSCULAR DYSTROPHY, DUCHENNE AND BECKER TYPES), INCLUDES DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 AA461118 |
| 389 | GENE353X | GF201:96(96B2):384(13C4)   |              | DIHYDROXYRIMIDINASE-LIKE 2 AA487674  |
| 390 | GENE76X  | GF200:96(19D7):384(5H14)   |              | 272038 N31948  |
| 391 | GENE256X | GF201:96(79B4):384(9C7)    |              | CYSTEINE DIOXYGENASE, TYPE I AA497111  |
| 392 | GENE29X  | GF200:96(13D12):384(4G23)  |              |  |

Table 6

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| 393 | GENE412X | GF202:96(116B11):384(16D21) | HUMAN LIVER CARBOXYLESTERASE MRNA, 3' END T68878  |
| 394 | GENE127X | GF200:96(27H11):384(7P22)   | ESTS, WEAKLY SIMILAR TO W01A11.2 GENE PRODUCT [C.ELEGANS] H25606  |
| 395 | GENE5X   | GF200:96(10E2):384(314)     | KIAA0914 GENE PRODUCT N51424  |
| 396 | GENE464X | PEROU:96(7E6):384(20J12)    | MITOGEN INDUCIBLE 2 H29253  |
| 397 | GENE268X | GF201:96(81H8):384(9P16)    | 307645 N93582   |
| 398 | GENE236X | GF201:96(65A12):384(23B24)  | HOMO SAPIENS MRNA FOR KIAA0786 PROTEIN, PARTIAL CDS W74533  |
| 399 | GENE110X | GF200:96(26A2):384(7A4)     | VON WILLEBRAND FACTOR AA487787  |
| 400 | GENE46X  | GF200:96(15E10):384(4I20)   | TISSUE FACTOR PATHWAY INHIBITOR (LIPOPROTEIN-ASSOCIATED COAGULATION INHIBITOR) T47454   |
| 401 | GENE339X | GF201:96(94F10):384(12L19)  | ESTS, HIGHLY SIMILAR TO (DEFINITE NOT AVAILABLE 4704754) [H.SAPIENS] AA426053   |
| 402 | GENE58X  | GF200:96(17F4):384(5K7)     | FATTY-ACID-COENZYME A LIGASE, LONG-CHAIN 1 T73556   |
| 403 | GENE195X | GF201:96(10I86):384(14D12)  | HOMO SAPIENS MRNA; CDNA DKFZP586A0522 (FROM CLONE DKFZP586A0522) T50041   |
| 404 | GENE308X | GF201:96(88E5):384(11I10)   | INSULIN RECEPTOR SUBSTRATE 1 AA460841   |
| 405 | GENE48X  | GF200:96(15F5):384(4L10)    | SYNDECAN 2 (HEPARAN SULFATE PROTEOGLYCAN 1, CELL SURFACE-ASSOCIATED, FIBROGLYCAN) H64346                                      |
| 406 | GENE430X | PEROU:96(2F4):384(19K8)     | FIBROBLAST GROWTH FACTOR RECEPTOR 1 AA281189  |
| 407 | GENE125X | GF200:96(27B3):384(7D6)     | ALKALINE PHOSPHATASE, LIVER/BONE/KIDNEY T94626  |
| 408 | GENE27X  | GF200:96(13B9):384(4C17)    | ALDO-KETO REDUCTASE FAMILY 1, MEMBER C1 (DIHYDRODIOL DEHYDROGENASE 1; 20-ALPHA (3-ALPHA)-HYDROXYSTEROID DEHYDROGENASE) R93124 |
| 409 | GENE447X | PEROU:96(6C11):384(20E22)   | 6-PHOSPHOFRUCTO-2-KINASE/FRUCTOSE-2,6-BIPHOSPHATASE 3 N93901  |
| 410 | GENE18X  | GF200:96(12E4):384(3J7)     | MICROSOMAL GLUTATHIONE S-TRANSFERASE 1 AA495936   |
| 411 | GENE279X | GF201:96(83H11):384(10O21)  | 811020 AA485369   |
| 412 | GENE214X | GF201:96(56A7):384(21A14)   | GUANINE NUCLEOTIDE BINDING PROTEIN (G PROTEIN), ALPHA STIMULATING ACTIVITY POLYPEPTIDE 1 AA035620                             |
| 413 | GENE101X | GF200:96(24E11):384(6J21)   | 814526 AA459588   |
| 414 | GENE209X | GF201:96(55F4):384(21K7)    | DNA-DEPENDENT PROTEIN KINASE CATALYTIC SUBUNIT-INTERACTING PROTEIN 2 N79761   |
| 415 | GENE365X | GF201:96(97B5):384(13D10)   | BONE MORPHOGENETIC PROTEIN 7 (OSTEOGENIC PROTEIN 1) W73473  |
| 416 | GENE243X | GF201:96(66E1):384(2311)    | BONE MORPHOGENETIC PROTEIN 7 (OSTEOGENIC PROTEIN 1) AA029597  |
| 417 | GENE274X | GF201:96(82G11):384(9N21)   | ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS] AA459296  |
| 418 | GENE393X | GF202:96(111D4):384(15H8)   | 757383 AA437140   |
| 419 | GENE69X  | GF200:96(18G9):384(5M18)    | PREFERENTIALLY EXPRESSED ANTIGEN OF MELANOMA AA598817   |
| 420 | GENE179X | GF200:96(8D1):384(2H1)      | ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SQ WARNING ENTRY !!!! [H.SAPIENS] H59915                                       |
| 421 | GENE438X | PEROU:96(4D3):384(19H5)     | CYTCHROME P450, SUBFAMILY I (DIOXIN-INDUCIBLE), POLYPEPTIDE 1 (GLAUCOMA 3, PRIMARY INFANTILE) AA029776                        |
| 422 | GENE104X | GF200:96(25C2):384(7E3)     | CYTCHROME P450, SUBFAMILY I (DIOXIN-INDUCIBLE), POLYPEPTIDE 1 (GLAUCOMA 3, PRIMARY INFANTILE) AA448157                        |
| 423 | GENE53X  | GF200:96(16G12):384(4N23)   | PHOSPHODIESTERASE 4B, CAMP-SPECIFIC (DUNCE (DROSOPHILA)-HOMOLOG PHOSPHODIESTERASE E4) AA453293                                |
| 424 | GENE67X  | GF200:96(18G10):384(5M20)   | PRE-B-CELL COLONY-ENHANCING FACTOR AA281932   |
| 425 | GENE360X | GF201:96(96F8):384(13K16)   | CERULOPLASMIN (FERROXIDASE) H86554  |

Table 6

|     |          |                            |  |          |
|-----|----------|----------------------------|--|----------|
| 426 | GENE344X | GF201:96(95A7):384(13A13)  | 148225 H13688  |          |
| 427 | GENE72X  | GF200:96(18H9):384(50I8)   | NUCLEAR FACTOR 1/B W87611  | ONCOGENE |
| 428 | GENE426X | PEROU:96(1H4):384(19O7)    | EPIDERMAL GROWTH FACTOR RECEPTOR (AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL (V-ERB-B) ONCOGENE   |          |
| 429 | GENE349X | GF201:96(95G6):384(13M11)  | HOMOLOG) AA234783  |          |
| 430 | GENE86X  | GF200:96(21G12):384(6M23)  | GRO1 ONCOGENE (MELANOMA GROWTH STIMULATING ACTIVITY, ALPHA) W42723   |          |
| 431 | GENE328X | GF201:96(92B2):384(12C4)   | PHOSPHOINOSITIDE-3-KINASE, REGULATORY SUBUNIT, POLYPEPTIDE 1 (P85 ALPHA) R54050  |          |
| 432 | GENE416X | PEROU:96(10C1):384(18F1)   | HUMAN DNA-BINDING PROTEIN ABP/ZF MRNA, COMPLETE CDS W88571   |          |
| 433 | GENE331X | GF201:96(92H10):384(12O20) | ANTILEUKOPROTEINASE AA026192   |          |
| 434 | GENE359X | GF201:96(96F6):384(13K12)  | FATTY ACID BINDING PROTEIN 7, BRAIN W72051   |          |
| 435 | GENE467X | PEROU:96(7F9):384(20L18)   | CHITINASE 3-LIKE 2 AA668821  |          |
| 436 | GENE451X | PEROU:96(6D1):384(20G2)    | TRANSMEMBRANE 4 SUPERFAMILY MEMBER 1 AA088439  |          |
| 437 | GENE91X  | GF200:96(22G5):384(6M10)   | TRANSMEMBRANE 4 SUPERFAMILY MEMBER 1 N47476  |          |
| 438 | GENE75X  | GF200:96(19B4):384(5D8)    | HOMO SAPIENS MRNA FOR CALPAIN-LIKE PROTEASE CANPX AA457330   |          |
| 439 | GENE320X | GF201:96(90F1):384(11L1)   | KERATIN 7 AA489569   |          |
| 440 | GENE108X | GF200:96(25G1):384(7M1)    | LADININ 1 T97710   |          |
| 441 | GENE156X | GF200:96(5B4):384(2C7)     | CADHERIN 3, P-CADHERIN (PLACENTAL) AA425556  |          |
| 442 | GENE134X | GF200:96(2A12):384(1A24)   | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, K R79082  |          |
| 443 | GENE147X | GF200:96(4A3):384(1B5)     | SRY (SEX-DETERMINING REGION Y)-BOX 9 (CAMPOMELIC DYSPLASIA, AUTOSOMAL SEX-REVERSAL)  |          |
| 444 | GENE257X | GF201:96(79D8):384(9G15)   | AA400739   |          |
| 445 | GENE469X | PEROU:96(8A7):384(20B13)   | KERATIN 13 W23757  |          |
| 446 | GENE434X | PEROU:96(3B12):384(19D24)  | KERATIN 13 W60057  |          |
| 447 | GENE287X | GF201:96(86C6):384(10F11)  | 2255577 A1679149   |          |
| 448 | GENE65X  | GF200:96(18A6):384(5A12)   | INTEGRIN, BETA 4 AA076514  |          |
| 449 | GENE459X | PEROU:96(6G5):384(20M10)   | TROPONIN I, SKELETAL, FAST AA181334  |          |
| 450 | GENE255X | GF201:96(69E2):384(24J4)   | INHIBITOR OF DNA BINDING 4, DOMINANT NEGATIVE HELIX-LOOP-HELIX PROTEIN AA464856  |          |
| 451 | GENE218X | GF201:96(57C10):384(21F20) | 510165 AA053251  |          |
| 452 | GENE423X | PEROU:96(1A3):384(19A5)    | 321902 W37448  |          |
| 453 | GENE20X  | GF200:96(12F11):384(3L21)  | PUTATIVE PROSTATE CANCER TUMOR SUPPRESSOR H134241  |          |
| 454 | GENE357X | GF201:96(96F11):384(13K22) | MDGI/FATTY ACID BINDING PROTEIN 3, MUSCLE AND HEART W04872   |          |
| 455 | GENE211X | GF201:96(55F8):384(21K15)  | FOLATE RECEPTOR 1 (ADULT) R24635   |          |
| 456 | GENE321X | GF201:96(90H10):384(11P19) | CELLULAR RETINOIC ACID-BINDING PROTEIN 1 AA421218  |          |
| 457 | GENE237X | GF201:96(65A8):384(23B16)  | CELLULAR RETINOIC ACID-BINDING PROTEIN 1 AA454702  |          |
| 458 | GENE2X   | GF200:96(10B8):384(3C16)   | DERMATAN SULPHATE PROTEOGLYCAN 3 AA131238  |          |
| 459 | GENE117X | GF200:96(26C9):384(7E18)   | 357396 W93847  |          |
| 460 | GENE114X | GF200:96(26C3):384(7E6)    | SMALL INDUCIBLE CYTOKINE SUBFAMILY A (CYS-CYS), MEMBER 18, PULMONARY AND ACTIVATION-<br>REGULATED AA495985<br>CD79A ANTIGEN (IMMUNOGLOBULIN-ASSOCIATED ALPHA) T87012 |          |
|     |          |                            | NEUTROPHIL CYTOSOLIC FACTOR 1 (47KD, CHRONIC GRANULOMATOUS DISEASE, AUTOSOMAL 1) AA489666  |          |



Table 6

|     |          |                             |   |
|-----|----------|-----------------------------|---|
| 461 | GENE445X | PEROU:96(6B12):384(20C24)   | IMMUNOGLOBULIN LAMBDA LIGHT CHAIN R50297  |
| 462 | GENE311X | GF201:96(88F6):384(11K12)   | IMMUNOGLOBULIN LAMBDA-LIKE POLYPEPTIDE 2 W73790   |
| 463 | GENE452X | PEROU:96(6D6):384(20G12)    | HUMAN REARRANGED IMMUNOGLOBULIN LAMBDA LIGHT CHAIN MRNA N64851  |
| 464 | GENE118X | GF200:96(26D3):384(7G6)     | HUMAN REARRANGED IMMUNOGLOBULIN LAMBDA LIGHT CHAIN MRNA T67053  |
| 465 | GENE84X  | GF200:96(21D8):384(6G15)    | BUTYROPHILIN, SUBFAMILY 3, MEMBER A3 AA478585   |
| 466 | GENE302X | GF201:96(88C3):384(11E6)    | LACTOTRANSFERRIN AA677706   |
| 467 | GENE253X | GF201:96(69A2):384(24B4)    | 322223 W38022   |
| 468 | GENE51X  | GF200:96(16D9):384(4H17)    | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, F AA598513   |
|     |          |                             | HUMAN DNA SEQUENCE FROM CLONE 466N1 ON CHROMOSOME 22Q12-13 CONTAINS H1FO(H1 HISTONE FAMILY, MEMBER O) GENE, 2-AMINO-3-KETOBUTYRATE -COA LIGASE( NUCLEAR GENE ENCODING MITOCHONDRIAL PROTEIN), GALR3 (GALANIN RECEPTOR) GENE, ESTS, N93695 |
| 469 | GENE208X | GF201:96(55E12):384(21I23)  | METALLOTHIONEIN 1G H53340   |
| 470 | GENE187X | GF200:96(9G2):384(3M3)      | METALLOTHIONEIN 1L N80129   |
| 471 | GENE115X | GF200:96(26C4):384(7E8)     | S100 CALCIUM-BINDING PROTEIN A1 AA425934  |
| 472 | GENE317X | GF201:96(89G6):384(11N12)   | 810459 AA457138   |
| 473 | GENE249X | GF201:96(67D6):384(24G11)   | ESTS, WEAKLY SIMILAR TO POTENT HEAT-STABLE PROTEIN PHOSPHATASE 2A INHIBITOR I1PP2A  |
| 474 | GENE400X | GF202:96(112G10):384(15N19) | [H.SAPIENS] AA130596  |
| 475 | GENE96X  | GF200:96(24B11):384(6D21)   | EPIDIDYMIS-SPECIFIC, WHEY-ACIDIC PROTEIN TYPE, FOUR-DISULFIDE CORE AA451904   |
| 476 | GENE225X | GF201:96(59A12):384(22A23)  | 364555 AA022601   |
| 477 | GENE283X | GF201:96(85B6):384(10D12)   | 359597 AA010818   |
| 478 | GENE126X | GF200:96(27C4):384(7F8)     | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 4502327) [H.SAPIENS] R65792   |
| 479 | GENE262X | GF201:96(80F3):384(9K6)     | 321488 W32509   |
| 480 | GENE80X  | GF200:96(1B7):384(1C13)     | V-MYC AVIAN MYELOCTOMATOSIS VIRAL ONCOGENE HOMOLOG AA464600   |
| 481 | GENE380X | GF201:96(99C12):384(14E23)  | ELECTRON-TRANSFER-FLAVOPROTEIN, BETA POLYPEPTIDE T62040   |
| 482 | GENE333X | GF201:96(92H8):384(12O16)   | GLUTATHIONE S-TRANSFERASE A4 AA152347   |
| 483 | GENE230X | GF201:96(63C4):384(23E7)    | 415064 W93120   |
| 484 | GENE378X | GF201:96(99A7):384(14A13)   | IGG FC BINDING PROTEIN R52030   |
| 485 | GENE254X | GF201:96(69D7):384(24H14)   | 323260 W42736   |
| 486 | GENE392X | GF202:96(111B9):384(15D18)  | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 4502327) [H.SAPIENS] T72850   |
| 487 | GENE448X | PEROU:96(6C2):384(20E4)     | 220376 H86813   |
| 488 | GENE180X | GF200:96(8E2):384(2J3)      | MANNOSIDASE, ALPHA 6A8 H45455   |
| 489 | GENE453X | PEROU:96(6E1):384(20I2)     | GLUTATHIONE S-TRANSFERASE M1 W02680   |
| 490 | GENE99X  | GF200:96(24C12):384(6F23)   | GLUTATHIONE S-TRANSFERASE M4 AA486669   |
| 491 | GENE16X  | GF200:96(12C8):384(3F15)    | GLUTATHIONE S-TRANSFERASE M1 AA290737   |
| 492 | GENE409X | GF202:96(115A2):384(16B4)   | HLA-B ASSOCIATED TRANSCRIPT-3 H67876  |
| 493 | GENE280X | GF201:96(84A4):384(10A8)    | 272262 N35592   |
|     |          |                             | FIBROBLAST GROWTH FACTOR RECEPTOR 2 (BACTERIA-EXPRESSED KINASE, KERATINOCYTE GROWTH FACTOR RECEPTOR, CRANIOFACIAL DYOSOSTOSIS 1, CROUZON SYNDROME, PFEIFFER SYNDROME, JACKSON-WEISS SYNDROME) AA443093                                    |
| 494 | GENE102X | GF200:96(24F4):384(6L7)     |   |



Table 6

|     |          |                           |   |
|-----|----------|---------------------------|---|
|     |          |                           | FIBROBLAST GROWTH FACTOR RECEPTOR 2 (BACTERIA-EXPRESSED KINASE, KERATINOCYTE GROWTH FACTOR RECEPTOR, CRANIOFACIAL DYSOSTOSIS 1, CROUZON SYNDROME, PFEIFFER SYNDROME, JACKSON-WEISS SYNDROME) AA456160 |
| 495 | GENE25X  | GF200:96(12G5):384(3IN9)  |   |
| 496 | GENE340X | GF201:96(94F6):384(12L11) | H.SAPIENS MRNA FOR TRE ONCOGENE (CLONE 210) AA437374  |

Table 7: Epithelial-enriched gene set

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| 197474   |
| H52098   |
| 786609   |
| AA478481   |
| FIBROBLAST ACTIVATION PROTEIN, ALPHA   |
| AA405569   |
| LARGE FIBROBLAST PROTEOGLYCAN PRECURSOR  |
| AA056022   |
| LARGE FIBROBLAST PROTEOGLYCAN PRECURSOR  |
| AA056022   |
| CHONDROITIN SULFATE PROTEOGLYCAN CORE PROTEIN  |
| AA722599   |
| PLASMINOGEN ACTIVATOR, UROKINASE RECEPTOR  |
| AA147962   |
| FIBRONECTIN 1  |
| R62612   |
| FIBRONECTIN 1  |
| R62612   |
| HUMAN ISOLATE JUSO MUC18 GLYCOPROTEIN MRNA (3' VARIANT), COMPLETE CDS  |
| AA497002   |
| H.SAPIENS MRNA FOR INHIBIN BETA(A) SUBUNIT   |
| N27159   |
| HUMAN MRNA FOR FIBRONECTIN (FN PRECURSOR)  |
| N26285   |
| ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SQ WARNING ENTRY !!!! [H.SAPIENS]   |
| H77494   |
| 244703   |
| N52533   |
| HOMO SAPIENS MRNA FOR NIDOGN-2   |
| AA479199   |
| LIM DOMAIN ONLY 7  |
| H22826   |
| TACHYKININ, PRECURSOR 1 (SUBSTANCE K, SUBSTANCE P, NEUROKININ 1, NEUROKININ 2, NEUROMEDIN L, NEUROKININ ALPHA, NEUROPEPTIDE K, NEUROPEPTIDE GAMMA) |
| AA446659   |
| INTERLEUKIN 1, BETA  |
| W47101   |
| INTERLEUKIN 1, BETA  |
| AA150507   |
| RAS-RELATED C3 BOTULINUM TOXIN SUBSTRATE 1 (RHO FAMILY, SMALL GTP BINDING PROTEIN RAC1)  |
| AA626787   |
| PROTEIN TYROSINE PHOSPHATASE J   |
| AA644448   |
| ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY SB1 WARNING ENTRY !!!! [H.SAPIENS]  |
| N21103   |
| FAT TUMOR SUPPRESSOR (DROSOPHILA) HOMOLOG  |
| A159194  |
| 271952   |
| N35301   |
| 179276   |
| H50323   |
| INOSITOL POLYPHOSPHATE-5-PHOSPHATASE, 145KD  |
| AA521067   |

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| CHOLINERGIC RECEPTOR, NICOTINIC, EPSILON POLYPEPTIDE<br>R02058   |
| ALDO-KETO REDUCTASE FAMILY 1, MEMBER C1 (DIHYDRODIOL DEHYDROGENASE 1; 20-ALPHA (3-ALPHA)-HYDROXYSTEROID DEHYDROGENASE)<br>R93124 |
| TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY, MEMBER 6<br>AA293571   |
| CYSTATIN A (STEFIN A)<br>W72207  |
| 347436<br>W81192   |
| ANTILEUKOPROTEINASE<br>AA026192  |
| JAGGED1 (ALAGILLE SYNDROME)<br>R70685  |
| PRION PROTEIN (P27-30) (CREUTZFELD-JAKOB DISEASE, GERSTMANN-STRAUSLER-SCHEINKER SYNDROME, FATAL FAMILIAL INSOMNIA)<br>AA455969   |
| ESTS, WEAKLY SIMILAR TO KIAA0639 PROTEIN [H.SAPIENS]<br>AA284277   |
| 843045<br>AA488420   |
| ALDEHYDE DEHYDROGENASE 6<br>AA455235   |
| CADHERIN 3, P-CADHERIN (PLACENTAL)<br>AA425556   |
| MDGI/FATTY ACID BINDING PROTEIN 3, MUSCLE AND HEART<br>W04872  |
| TROPONIN I, SKELETAL, FAST<br>AA181334   |
| MATRIX METALLOPROTEINASE 14 (MEMBRANE-INSERTED)<br>N33214  |
| LAMININ, GAMMA 2 (NICEIN (100KD), KALININ (105KD), BM600 (100KD), HERLITZ JUNCTIONAL EPIDERMOLYSIS BULLOSA))<br>AA677534         |
| ANNEXIN VIII<br>AA252968   |
| ESTS, HIGHLY SIMILAR TO PROBABLE ATAXIA-TELANGIECTASIA GROUP D PROTEIN [H.SAPIENS] A<br>A055486                                  |
| KERATIN 17<br>AA026642   |
| KERATIN 17<br>aa026642   |
| ESTS, HIGHLY SIMILAR TO KERATIN K5, 58K TYPE II, EPIDERMAL [H.SAPIENS]<br>AA160507   |
| KERATIN 5 (EPIDERMOLYSIS BULLOSA SIMPLEX DOWLING-MEARA/KOBNER/WEBER-COCKAYNE TYPES)<br>W72110                                    |
| ESTS, HIGHLY SIMILAR TO KERATIN K5, 58K TYPE II, EPIDERMAL<br>W72110   |
| BULLOUS PEMPHIGOID ANTIGEN 1 (230/240KD)<br>H44784   |
| S100 CALCIUM-BINDING PROTEIN A2<br>AA458884  |
| INTEGRIN, BETA 4<br>AA485668   |
| INTEGRIN, BETA 4<br>AA076514   |

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|---|
| 2255577   |
| AI679149  |
| LAMININ, ALPHA 3 (NICEIN (150KD), KALININ (165KD), BM600 (150KD), EPILEGRIN)  |
| AA001432  |
| COLLAGEN, TYPE XVII, ALPHA 1  |
| H87536  |
| BASONUCLIN  |
| R26526  |
| 504940  |
| AA150619  |
| HUMAN DNA SEQUENCE FROM CLONE 973M2 ON CHROMOSOME 1Q24.3-31.1 CONTAINS PROSTAGLANDIN-<br>ENDOPEROXIDE SYNTHASE 2 (PROSTAGLANDIN G/H SYNTHASE AND CYCLOOXYGENASE) GENE, ESTS, STS,<br>GSSS |
| AA644211  |
| 810904  |
| AA459285  |
| MYOSIN IC   |
| AA029956  |
| EPHRIN-B1   |
| AA428778  |
| MATRIX METALLOPROTEINASE 7 (MATRILYSIN, UTERINE)  |
| AA031513  |
| 294682  |
| W01603  |
| INTEGRIN, ALPHA 3 (ANTIGEN CD49C, ALPHA 3 SUBUNIT OF VLA-3 RECEPTOR)  |
| AA293040  |
| INTEGRIN, ALPHA 3 (ANTIGEN CD49C, ALPHA 3 SUBUNIT OF VLA-3 RECEPTOR)  |
| AA424695  |
| SERUM AMYLOID A1  |
| H25546  |
| GM2 GANGLIOSIDE ACTIVATOR PROTEIN   |
| AA453978  |
| ESTS, WEAKLY SIMILAR TO TRANSPOSON LRE2 REVERSE TRANSCRIPTASE HOMOLOG [H.SAPIENS]   |
| W48580  |
| CARBONIC ANHYDRASE II   |
| H23187  |
| LATENT TRANSFORMING GROWTH FACTOR BETA BINDING PROTEIN 2  |
| AA424629  |
| SECRETED FRIZZLED-RELATED PROTEIN 1   |
| T68892  |
| LECTIN, GALACTOSIDE-BINDING, SOLUBLE, 7 (GALECTIN 7)  |
| W72436  |
| PLASMINOGEN ACTIVATOR, UROKINASE  |
| AA284668  |
| ENDOTHELIN RECEPTOR TYPE A  |
| AA452627  |
| ESTS, HIGHLY SIMILAR TO (DEFLINE NOT AVAILABLE 5231137) [H.SAPIENS]   |
| W30988  |
| N-MYC DOWNSTREAM REGULATED  |
| AA489261  |
| EPIDERMAL GROWTH FACTOR RECEPTOR (AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL (V-ERB-B) ONCOGENE<br>HOMOLOG)  |
| AA234783  |
| 359285  |
| AA016234  |
| INTERLEUKIN 4 RECEPTOR  |
| AA292025  |
| DIACYLGLYCEROL KINASE, ALPHA (80KD)   |
| AA456900  |

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| 770670   |
| AA476272   |
| FOLATE RECEPTOR 1 (ADULT)  |
| R24635   |
| HUMAN MRNA FOR KIAA0300 GENE, PARTIAL CDS  |
| AA405458   |
| HUMAN GABA-A RECEPTOR EPSILON SUBUNIT (GABRE) RNA, ALTERNATIVE TRANSCRIPT  |
| H63934   |
| SMALL INDUCIBLE CYTOKINE SUBFAMILY D (CYS-X3-CYS), MEMBER 1 (FRACTALKINE, NEUROTACTIN)   |
| R66139   |
| HUMAN DNA SEQUENCE FROM PAC 196E23 ON CHROMOSOME XQ26.1-27.2. CONTAINS THE TAT-SF1 (HIV-1 TRANSCRIPTIONAL ELONGATION FACTOR TAT COFACTOR TAT-SF1) GENE, THE BRS3 (BOMBESIN RECEPTOR SUBTYPE-3 (UTERINE BOMBESIN RECEPTOR, BRS-3) GEN |
| AA700322   |
| HUMAN DNA-BINDING PROTEIN ABP/ZF MRNA, COMPLETE CDS  |
| W88571   |
| PHOSPHATIDYLINOSITOL-4-PHOSPHATE 5-KINASE, TYPE I, BETA  |
| R39069   |
| 51406  |
| H18950   |
| 503051   |
| AA149250   |
| FATTY ACID BINDING PROTEIN 7, BRAIN  |
| N46862   |
| FATTY ACID BINDING PROTEIN 7, BRAIN  |
| W72051   |
| MACROPHAGE RECEPTOR WITH COLLAGENOUS STRUCTURE   |
| AA485867   |
| HOMO SAPIENS MRNA FOR CALPAIN-LIKE PROTEASE CANPX  |
| AA457330   |
| 298662   |
| N74313   |
| FORKHEAD (DROSOPHILA)-LIKE 7   |
| N22552   |
| ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS]  |
| AA459296   |
| MEGAKARYOCYTE POTENTIATING FACTOR  |
| AA488406   |
| PREFERENTIALLY EXPRESSED ANTIGEN OF MELANOMA   |
| AA598817   |
| EYES ABSENT (DROSOPHILA) HOMOLOG 2   |
| AA402207   |
| SYNAPTOGYRIN 1   |
| AA007632   |
| PHOSPHOLIPASE C, BETA 4  |
| H22563   |
| TRANSCRIPTION FACTOR AP-2 GAMMA (ACTIVATING ENHANCER-BINDING PROTEIN 2 GAMMA)  |
| AA399334   |
| KERATIN 4  |
| AA629189   |
| BONE MORPHOGENETIC PROTEIN 7 (OSTEOGENIC PROTEIN 1)  |
| AA029597   |
| BONE MORPHOGENETIC PROTEIN 7 (OSTEOGENIC PROTEIN 1)  |
| W73473   |
| KIAA0626 GENE PRODUCT  |
| N62737   |
| HUMAN MRNA FOR KIAA0338 GENE, PARTIAL CDS  |
| R71689   |

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| CERULOPLASMIN (FERROXIDASE)<br>H86554  |
| ESTS, MODERATELY SIMILAR TO (DEFLINE NOT AVAILABLE 4159884) [H.SAPIENS]<br>AA001222  |
| DESMOCOLLIN 2<br>AA074677  |
| 321902<br>W37448   |
| KERATIN 13<br>W60057   |
| KERATIN 13<br>W23757   |
| 134011<br>R31262   |
| 49630<br>H29256  |
| VITAMIN D (1,25- DIHYDROXYVITAMIN D3) RECEPTOR<br>AA485226   |
| SYNDECAN 1<br>AA074511   |
| SEMA DOMAIN, IMMUNOGLOBULIN DOMAIN (IG), SHORT BASIC DOMAIN, SECRETED, (SEMAPHORIN) 3F<br>AA454570                             |
| PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, F<br>AA598513   |
| BUTYRATE RESPONSE FACTOR 1 (EGF-RESPONSE FACTOR 1)<br>AA424743   |
| ANTHRACYCLINE RESISTANCE-ASSOCIATED<br>AA495766  |
| MEMBRANE COMPONENT, CHROMOSOME 1, SURFACE MARKER 1 (40KD GLYCOPROTEIN, IDENTIFIED BY<br>MONOCLONAL ANTIBODY GA733)<br>AA454810 |
| KERATIN 7<br>AA489569  |
| 813520<br>AA455591   |
| HOMO SAPIENS MRNA; CDNA DKFZP586B2022 (FROM CLONE DKFZP586B2022)<br>T52325   |
| HOMO SAPIENS AGRIN PRECURSOR MRNA, PARTIAL CDS<br>AA458878   |
| ESTS, WEAKLY SIMILAR TO KIAA0319 [H.SAPIENS]<br>AA136133   |
| ANTIQUITIN 1<br>AA101299   |
| HEXOKINASE 1<br>AA485272   |
| HEXOKINASE 1<br>AA485271   |
| LADININ 1<br>T97710  |
| H.SAPIENS MRNA FOR RECEPTOR TYROSINE KINASE EPH (PARTIAL)<br>N90246  |
| 144834<br>R77251   |
| CREATINE KINASE, MITOCHONDRIAL 1 (UBIQUITOUS)<br>AA019482  |
| 364302<br>AA022462   |
| 176461<br>H43515   |

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|---|
| RECEPTOR PROTEIN-TYROSINE KINASE EDDR1<br>H41900  |
| HOMO SAPIENS MRNA FOR INOSITOL 1,4,5-TRISPHOSPHATE 3-KINASE ISOENZYME, PARTIAL CDS<br>N46828  |
| PLEXIN 5<br>AA496565  |
| 810873<br>AA459197  |
| 504225<br>AA131934  |
| SNF2-RELATED CBP ACTIVATOR PROTEIN<br>AA419088  |
| ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS]<br>H97778   |
| ESTS, WEAKLY SIMILAR TO KIAA0281 [H.SAPIENS]<br>N54395  |
| 85804<br>T72068   |
| JUNCTION PLAKOGLOBIN<br>R06417  |
| CDP-DIACYLGLYCEROL SYNTHASE (PHOSPHATIDATE CYTIDYLYLTRANSFERASE) 1<br>R31562  |
| PROLINE-RICH GLA (G-CARBOXYLUTAMIC ACID) POLYPEPTIDE 2<br>AA430552  |
| HUMAN DNA SEQUENCE FROM PAC 127B20 ON CHROMOSOME 22Q11.2-QTER, CONTAINS GENE FOR GTPASE-ACTIVATING PROTEIN SIMILAR TO RHOGAP PROTEIN. RIBOSOMAL PROTEIN L6 PSEUDOGENE, ESTS AND CA REPEAT<br>AA037410 |
| ESTS, WEAKLY SIMILAR TO LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR [H.SAPIENS]<br>AA489246  |
| 416386<br>W86859  |
| PLACENTAL BIKUNIN (KUNITZ-TYPE SERINE PROTEASE INHIBITOR)<br>AA031287   |
| SERINE PROTEASE INHIBITOR, KUNITZ TYPE, 2<br>AA459039   |
| HUMAN PLACENTAL BIKUNIN MRNA COMPLETE CDS<br>AA031287   |
| 810728<br>AA457707  |
| HOMO SAPIENS MRNA; CDNA DKFZP586F1318 (FROM CLONE DKFZP586F1318)<br>T77847  |
| 147447<br>R81173  |
| 365517<br>AA009593  |
| 417081<br>W87826  |
| ESTS, WEAKLY SIMILAR TO (DEFINITION NOT AVAILABLE 4929751) [H.SAPIENS]<br>AA004846  |
| HOMO SAPIENS MRNA; CDNA DKFZP586J2118 (FROM CLONE DKFZP586J2118)<br>R98407  |
| 297604<br>N69835  |
| 297604<br>N69835  |
| DNA SEGMENT, SINGLE COPY PROBE LNS-CAI/LNS-CAII (DELETED IN POLYPOSIS)<br>H99681  |

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|---|
| ESTROGEN RECEPTOR 1   |
| AA164586  |
| 275798  |
| R93185  |
| TUMOR PROTEIN D52   |
| AA459318  |
| HUMAN D9 SPLICE VARIANT B MRNA, COMPLETE CDS  |
| AA453832  |
| MAJOR GASTROINTESTINAL TUMOR-ASSOCIATED PROTEIN GA733-2 PRECURSOR                       |
| AA055808  |
| KIAA0351 GENE PRODUCT   |
| AA402863  |
| RAB2, MEMBER RAS ONCOGENE FAMILY-LIKE   |
| AA401972  |
| NEBULETTE   |
| N77806  |
| ESTS, WEAKLY SIMILAR TO UNKNOWN [H.SAPIENS]   |
| R01499  |
| 486828  |
| AA042878  |
| 486828  |
| AA042878  |
| XMP   |
| T84249  |
| EPITHELIAL MEMBRANE PROTEIN 2   |
| T88721  |
| KERATIN 8   |
| AA598517  |
| 44292   |
| H06273  |
| KERATIN 18  |
| AA070385  |
| KERATIN 18  |
| AA664179  |
| CLAUDIN 4   |
| AA430665  |
| HCPE-R MRNA FOR CPE-RECEPTOR  |
| AA506754  |
| HCPE-R MRNA FOR CPE-RECEPTOR  |
| W74492  |
| HOMO SAPIENS EPITHELIAL-SPECIFIC TRANSCRIPTION FACTOR ESE-1A (ESE-1) MRNA, COMPLETE CDS |
| AA433851  |
| EPITHELIAL-SPECIFIC TRANSCRIPTION FACTOR ESE-1B (ESE-1) MRNA COMPLETE CDS               |
| H27938  |
| SERINE PROTEASE INHIBITOR, KUNITZ TYPE 1  |
| AA464250  |
| TRANSFORMING GROWTH FACTOR, BETA 3  |
| AA040617  |
| TRANSFORMING GROWTH FACTOR BETA 3   |
| AA040616  |
| TRANSFORMING GROWTH FACTOR BETA 3   |
| AA040616  |
| LYSOSOMAL-ASSOCIATED MEMBRANE PROTEIN 1   |
| H29077  |
| ISLET CELL AUTOANTIGEN 1 (69KD)   |
| AA491302  |
| ESTS, MODERATELY SIMILAR TO K02E10.2 [C.ELEGANS]  |
| T62552  |



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| 82869  |
| T69270   |
| SELENIUM BINDING PROTEIN 1   |
| T65736   |
| HOMO SAPIENS MRNA FOR HYPOTHETICAL PROTEIN   |
| AA487488   |
| PROLACTIN RECEPTOR   |
| R63647   |
| 321658   |
| W32933   |
| 321658   |
| W32933   |
| 202658   |
| H53479   |
| 202658   |
| H53479   |
| ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SQ WARNING ENTRY !!!! [H.SAPIENS]   |
| AA464739   |
| 197520   |
| H52110   |
| KIAA0182   |
| AA037466   |
| HUMAN MRNA FOR KIAA0182 GENE, PARTIAL CDS  |
| H05563   |
| SOLUTE CARRIER FAMILY 9 (SODIUM/HYDROGEN EXCHANGER), ISOFORM 3 REGULATORY FACTOR 1 |
| AA425299   |
| 179211   |
| H50224   |
| 179211   |
| H50224   |
| FRUCTOSE-BISPHOSPHATASE 1  |
| AA699427   |
| HUMAN ENDOGENOUS RETROVIRUS ENVELOPE REGION MRNA (PL1)                             |
| AA701655   |
| X-BOX BINDING PROTEIN 1  |
| W90128   |
| HEPATOCYTE NUCLEAR FACTOR 3, ALPHA   |
| T74639   |
| GATA-BINDING PROTEIN 3   |
| H72474   |
| GATA-BINDING PROTEIN 3   |
| R31442   |
| GATA-BINDING PROTEIN 3   |
| R31441   |
| GATA-BINDING PROTEIN 3   |
| AA058828   |
| ESTROGEN RECEPTOR 1  |
| AA291702   |
| ESTROGEN RECEPTOR 1  |
| AA291749   |
| ANNEXIN XXXI   |
| N76688   |
| ANNEXIN XXXI   |
| N76688   |
| HOMO SAPIENS MRNA; CDNA DKFZP434A091 (FROM CLONE DKFZP434A091)                     |
| AA431988   |
| CANALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER C                              |
| N80617   |

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|---|
| HOMO SAPIENS MRNA FOR NEUROBLASTOMA, COMPLETE CDS<br>AA481950                                   |
| CELLULAR RETINOIC ACID-BINDING PROTEIN 2<br>AA036987  |
| CELLULAR RETINOIC ACID-BINDING PROTEIN 2<br>AA598508  |
| CELLULAR RETINOIC ACID-BINDING PROTEIN 2<br>AA036986  |
| HUMAN SECRETORY PROTEIN (P1.B) MRNA, COMPLETE CDS<br>N74131                                     |
| MSH (DROSOPHILA) HOMEO BOX HOMOLOG 2<br>AA195636  |
| HUMAN CHROMOSOME 16 BAC CLONE CIT987SK-254P9<br>H23265  |
| 204483<br>H58234  |
| HUMAN INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 5 (IGFBP5) MRNA<br>T52830                      |
| INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 5 (IGFBP5)<br>AA054451                               |
| HUMAN INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 5 (IGFBP5) MRNA<br>H08560                      |
| HUMAN MRNA FOR KIAA0061 GENE, PARTIAL CDS<br>N33237   |
| HUMAN MRNA FOR KIAA0143 GENE, PARTIAL CDS<br>AA112057   |
| CYSTEINE-RICH PROTEIN 2<br>AA485427   |
| PDGF BETA<br>T49539   |
| 67654<br>T49539   |
| RAS HOMOLOG GENE FAMILY, MEMBER B<br>H89046   |
| RAS HOMOLOG GENE FAMILY, MEMBER B<br>AA495846   |
| 140018<br>R63971  |
| 140018<br>R63971  |
| 81475<br>T63511   |
| CYTOCHROME P450, SUBFAMILY IIJ (ARACHIDONIC ACID EPOXYGENASE) POLYPEPTIDE 2<br>H09076           |
| P53-INDUCED PROTEIN<br>H12189   |
| HOMO SAPIENS BREAST CANCER PUTATIVE TRANSCRIPTION FACTOR (ZABC1) MRNA, COMPLETE CDS<br>AA460802 |
| HOMO SAPIENS BREAST CANCER PUTATIVE TRANSCRIPTION FACTOR (ZABC1) MRNA, COMPLETE CDS<br>AA782528 |
| SULFOTRANSFERASE FAMILY 2B, MEMBER 1<br>R73584  |
| HEREDITARY HEMOCHROMOTOSIS<br>R07647  |
| MUCIN 1, TRANSMEMBRANE<br>AA488073  |
| 156053<br>R72491  |

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| 447786   |
| AA702350   |
| 415317   |
| W92160   |
| IGG FC BINDING PROTEIN   |
| R52030   |
| EPIDIDYMIS-SPECIFIC, WHEY-ACIDIC PROTEIN TYPE, FOUR-DISULFIDE CORE AA451904  |
| SRC KINASE-ASSOCIATED PHOSPHOPROTEIN OF 55 KDA   |
| R01281   |
| CARBONIC ANHYDRASE XI  |
| N52089   |
| PHOSPHOFRUCTOKINASE, MUSCLE  |
| AA099169   |
| HUMAN HEART MRNA FOR HEAT SHOCK PROTEIN 90, PARTIAL CDS  |
| AA064973   |
| 130843   |
| R22306   |
| 470105   |
| AA029949   |
| H2B HISTONE FAMILY, MEMBER Q   |
| AA010223   |
| H2B HISTONE FAMILY, MEMBER Q   |
| AA456695   |
| H2A HISTONE FAMILY, MEMBER L   |
| N50797   |
| H1 HISTONE FAMILY, MEMBER 2  |
| T66816   |
| 322461   |
| W15305   |
| 289734   |
| N62965   |
| DUAL SPECIFICITY PHOSPHATASE 4   |
| AA444049   |
| CALCIUM CHANNEL, VOLTAGE-DEPENDENT, ALPHA 2/Delta SUBUNIT 2  |
| N53512   |
| ACYL-COENZYME A DEHYDROGENASE, SHORT/BRANCHED CHAIN  |
| H96140   |
| CYTOCHROME P450, SUBFAMILY IIB (PHENOBARBITAL-INDUCIBLE), POLYPEPTIDE 6  |
| H41908   |
| PROTEASE INHIBITOR 12 (NEUROSERPIN)  |
| AA115876   |
| HUMAN DNA SEQUENCE FROM CLONE 167A19 ON CHROMOSOME 1P32.1-33. CONTAINS THREE GENES FOR NOVEL PROTEINS, THE DIO1 GENE FOR TYPE I IODOTHYRONINE DEIODINASE (EC 3.8.1.4, TXD11, ITD11) AND AN HNRNP A3 (HETEROGENOUS NUCLEAR RIBONUCLEOPR |
| N74025   |
| AUTOCRINE MOTILITY FACTOR RECEPTOR   |
| AA479243   |
| CYTOCHROME P450, SUBFAMILY IIA (PHENOBARBITAL-INDUCIBLE), POLYPEPTIDE 7  |
| T73031   |
| ANGIOTENSIN RECEPTOR 1   |
| H66116   |
| ESTS, WEAKLY SIMILAR TO TUMOROUS IMAGINAL DISCS PROTEIN TID56 HOMOLOG [H.SAPIENS]  |
| T95268   |
| QUINOID DIHYDROPTERIDINE REDUCTASE   |
| R38198   |
| LYMPHOID NUCLEAR PROTEIN RELATED TO AF4  |
| H99588   |

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| NUCLEOPORIN 88KD   |
| AA479888   |
| 307220   |
| N95180   |
| HOMO SAPIENS MRNA; CDNA DKFZP564P0662 (FROM CLONE DKFZP564P0662)                 |
| R27680   |
| HEPSIN (TRANSMEMBRANE PROTEASE, SERINE 1)  |
| H62162   |
| ESTS, HIGHLY SIMILAR TO TRANSCRIPTION ELONGATION FACTOR TFIIS.H [H.SAPIENS]      |
| R09980   |
| 795744   |
| AA460298   |
| N-ACETYLTRANSFERASE 1 (ARYLAMINE N-ACETYLTRANSFERASE)                            |
| R91803   |
| N-ACETYLTRANSFERASE 1 (ARYLAMINE N-ACETYLTRANSFERASE)                            |
| T67128   |
| 503581   |
| AA131239   |
| HUMAN BREAST CANCER, ESTROGEN REGULATED LIV-1 PROTEIN (LIV-1) MRNA, PARTIAL CDS  |
| H29407   |
| N-ACYLSPHINGOSINE AMIDOHYDROLASE (ACID CERAMIDASE)                               |
| AA664155   |
| EPOXIDE HYDROLASE 2, CYTOPLASMIC   |
| R73525   |
| B-CELL CLL/LYMPHOMA 2  |
| W63749   |
| ESTS, HIGHLY SIMILAR TO (DEFLINE NOT AVAILABLE 4929557) [H.SAPIENS]              |
| T74688   |
| BASIC HELIX-LOOP-HELIX DOMAIN CONTAINING, CLASS B, 2                             |
| T62084   |
| FORKHEAD (DROSOPHILA) HOMOLOG 1 (RHABDOMYOSARCOMA)                               |
| AA448277   |
| ACTIVATED P21CDC42HS KINASE  |
| AA427891   |
| HUMAN MRNA FOR KIAA0303 GENE, PARTIAL CDS  |
| AA418846   |
| 487929   |
| AA045481   |
| ZINC FINGER PROTEIN HOMOLOGOUS TO ZFP103 IN MOUSE                                |
| AA429297   |
| CELL DIVISION CYCLE 4-LIKE   |
| AA041499   |
| ESTS, WEAKLY SIMILAR TO P1.11659_5   |
| N47593   |
| ESTS, WEAKLY SIMILAR TO (DEFLINE NOT AVAILABLE 4502327) [H.SAPIENS]              |
| T72850   |
| ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SQ WARNING ENTRY !!!! [H.SAPIENS] |
| R70598   |
| 220376   |
| H86813   |
| HOMO SAPIENS MRNA; CDNA DKFZP434H071 (FROM CLONE DKFZP434H071)                   |
| T41078   |
| ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS]      |
| AA669222   |
| T3 RECEPTOR-ASSOCIATING COFACTOR-1 [HUMAN, FETAL LIVER, MRNA, 2930 NT]           |
| AA400234   |

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| 416556   |
| W86987   |
| 418240   |
| W90241   |
| KIAA0130 GENE PRODUCT  |
| N76581   |
| ERBB-2 RECEPTOR PROTEIN-TYROSINE KINASE PRECURSOR  |
| AA025141   |
| STEROIDOGENIC ACUTE REGULATORY PROTEIN RELATED   |
| AA504710   |
| ERBB2-POLYA  |
| X03363   |
| V-ERB-B2 AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL ONCOGENE HOMOLOG 2<br>(NEURO/GLIOBLASTOMA DERIVED ONCOGENE HOMOLOG) |
| AA025141   |
| V-ERB-B2 AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL ONCOGENE HOMOLOG 2<br>(NEURO/GLIOBLASTOMA DERIVED ONCOGENE HOMOLOG) |
| AA443351   |
| ERBB2  |
| AA481939   |
| GROWTH FACTOR RECEPTOR-BOUND PROTEIN 7   |
| H53703   |
| 68400  |
| T57034   |
| 68400  |
| T57034   |
| SWI/SNF RELATED, MATRIX ASSOCIATED, ACTIN DEPENDENT REGULATOR OF CHROMATIN,<br>SUBFAMILY E, MEMBER 1             |
| W63613   |
| ESTS, WEAKLY SIMILAR TO ENVELOPE PROTEIN [H.SAPIENS]   |
| W37778   |
| 271076   |
| N29918   |

Table 8: Luminal gene subset

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| B-CELL CLL/LYMPHOMA 2  |
| W63749   |
| ESTS, WEAKLY SIMILAR TO MEMBRANE GLYCOPROTEIN [M.MUSCULUS]   |
| AA159578   |
| 51700  |
| H22854   |
| NEBULETTE  |
| N77806   |
| HUMAN DNA SEQUENCE FROM CLONE 167A19 ON CHROMOSOME 1P32.1-33. CONTAINS THREE GENES FOR NOVEL PROTEINS, THE DIO1 GENE FOR TYPE I IODOTHYRONINE DEIODINASE (EC 3.8.1.4, TXD11, ITD1) AND AN HNRNP A3 (HETEROGENOUS NUCLEAR RIBONUCLEOPROTEIN |
| N74025   |
| PROLACTIN RECEPTOR   |
| R63647   |
| 202658   |
| H53479   |
| 202658   |
| H53479   |
| 609283   |
| AA167189   |
| MYOSIN VI  |
| AA625890   |
| 470216   |
| AA028987   |
| N-ACETYLTRANSFERASE 1 (ARYLAMINE N-ACETYLTRANSFERASE)  |
| R91803   |
| HOMO SAPIENS MRNA; CDNA DKFZP434A091 (FROM CLONE DKFZP434A091)   |
| AA431988   |
| 358936   |
| W92233   |
| SEVEN IN ABSENTIA (DROSOPHILA) HOMOLOG 2   |
| AA029041   |
| HEPSIN (TRANSMEMBRANE PROTEASE, SERINE 1)  |
| H62162   |
| 417081   |
| W87826   |
| 470105   |
| AA029949   |
| HUMAN SECRETORY PROTEIN (P1.B) MRNA, COMPLETE CDS  |
| N74131   |
| HEPATOCYTE NUCLEAR FACTOR 3, ALPHA   |
| T74639   |
| X-BOX BINDING PROTEIN 1  |
| W90128   |
| ESTROGEN RECEPTOR 1  |
| AA291702   |
| ESTROGEN RECEPTOR 1  |
| AA291749   |
| GATA-BINDING PROTEIN 3   |
| H72474   |
| GATA-BINDING PROTEIN 3   |
| R31441   |
| GATA-BINDING PROTEIN 3   |
| R31442   |

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| ANNEXIN XXXI<br>N76688  |
| HUMAN BREAST CANCER, ESTROGEN REGULATED LIV-1 PROTEIN (LIV-1) MRNA, PARTIAL CDS<br>H29407           |
| 346321<br>W74079  |
| HUMAN CHROMOSOME 16 BAC CLONE CIT987SK-254P9<br>H23265  |
| 71863<br>T52564   |
| 271989<br>N31935  |
| ESTS, HIGHLY SIMILAR TO INOSITOL POLYPHOSPHATE 4-PHOSPHATASE TYPE II-ALPHA<br>[H.SAPIENS]<br>R86721 |
| 179211<br>H50224  |
| 179211<br>H50224  |
| MURINE LEUKEMIA VIRAL (BMI-1) ONCOGENE HOMOLOG<br>T87515  |
| MURINE LEUKEMIA VIRAL (BMI-1) ONCOGENE HOMOLOG<br>AA478036  |
| LUTHERAN BLOOD GROUP (AUBERGER B ANTIGEN INCLUDED)<br>H24954  |
| HOMO SAPIENS (PWD) GENE MRNA, 3' END<br>N26536  |
| 782547<br>AA431796  |
| ACYL-COENZYME A DEHYDROGENASE, SHORT/BRANCHED CHAIN<br>H96140                                       |
| CARNITINE PALMITOYLTRANSFERASE II<br>N70848   |
| ALDO-KETO REDUCTASE FAMILY 7, MEMBER A2 (AFLATOXIN ALDEHYDE REDUCTASE)<br>T62865                    |
| CYTOCHROME P450, SUBFAMILY IIA (PHENOBARBITAL-INDUCIBLE), POLYPEPTIDE 7<br>T73031                   |
| ANGIOTENSIN RECEPTOR 1<br>H66116  |
| LYMPHOID NUCLEAR PROTEIN RELATED TO AF4<br>H99588   |
| HUMAN MRNA FOR KIAA0303 GENE, PARTIAL CDS<br>AA418846   |
| EPOXIDE HYDROLASE 2, CYTOPLASMIC<br>R73525  |
| DUAL SPECIFICITY PHOSPHATASE 4<br>AA444049  |

Table 9: Basal gene subset 1

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|---|
| DUAL SPECIFICITY PHOSPHATASE 6<br>AA630374  |
| LAMININ, GAMMA 2 (NICEIN (100KD), KALININ (105KD), BM600 (100KD), HERLITZ JUNCTIONAL EPIDERMOLYSIS BULLOSA))<br>AA677534                                |
| MATRIX METALLOPROTEINASE 14 (MEMBRANE-INSERTED)<br>N33214   |
| COLLAGEN, TYPE XVII, ALPHA 1<br>H87536  |
| CALPONIN 1, BASIC, SMOOTH MUSCLE<br>AA399519  |
| PLEIOTROPHIN (HEPARIN BINDING GROWTH FACTOR 8, NEURITE GROWTH-PROMOTING FACTOR 1)<br>AA001449   |
| PLEIOTROPHIN (HEPARIN BINDING GROWTH FACTOR 8, NEURITE GROWTH-PROMOTING FACTOR 1)<br>AA001449   |
| 1912786<br>AI304356   |
| GELSOLIN (AMYLOIDOSIS, FINNISH TYPE)<br>H72027  |
| BULLOUS PEMPHIGOID ANTIGEN 1 (230/240KD)<br>H44784  |
| SMALL INDUCIBLE CYTOKINE SUBFAMILY D (CYS-X3-CYS), MEMBER 1 (FRACTALKINE, NEUROTACTIN)<br>R66139  |
| KERATIN 17<br>aa026642  |
| KERATIN 17<br>AA026642  |
| KERATIN 5 (EPIDERMOLYSIS BULLOSA SIMPLEX DOWLING-MEARA/KOBNER/WEBER-COCKAYNE TYPES)<br>W72110   |
| ESTS, HIGHLY SIMILAR TO KERATIN K5, 58K TYPE II, EPIDERMAL<br>W72110  |
| ESTS, HIGHLY SIMILAR TO PROBABLE ATAXIA-TELANGIECTASIA GROUP D PROTEIN [H.SAPIENS]<br>AA055486  |
| CRYSTALLIN, ALPHA B<br>AA504943   |
| CAVEOLIN 2<br>T89391  |
| ANNEXIN I (LIPOCORTIN I)<br>H63077  |
| DYSTROPHIN (MUSCULAR DYSTROPHY, DUCHENNE AND BECKER TYPES), INCLUDES DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272<br>AA461118 |
| DIHYDROPYRIMIDINASE-LIKE 2<br>AA487674  |



Table 9: Basal gene subset 2

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|---|
| EPIDERMAL GROWTH FACTOR RECEPTOR (AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL (V-ERB-B) ONCOGENE HOMOLOG)<br>AA234783 |
| GRO1 ONCOGENE (MELANOMA GROWTH STIMULATING ACTIVITY, ALPHA)<br>W42723   |
| PHOSPHOINOSITIDE-3-KINASE, REGULATORY SUBUNIT, POLYPEPTIDE 1 (P85 ALPHA)<br>R54050                            |
| HUMAN DNA-BINDING PROTEIN ABP/ZF MRNA, COMPLETE CDS<br>W88571   |
| ANTILEUKOPROTEINASE<br>AA026192   |
| FATTY ACID BINDING PROTEIN 7, BRAIN<br>W72051   |
| CHITINASE 3-LIKE 2<br>AA668821  |
| TRANSMEMBRANE 4 SUPERFAMILY MEMBER 1<br>AA088439  |
| TRANSMEMBRANE 4 SUPERFAMILY MEMBER 1<br>N47476  |
| HOMO SAPIENS MRNA FOR CALPAIN-LIKE PROTEASE CANPX<br>AA457330   |
| KERATIN 7<br>AA489569   |
| LADININ 1<br>T97710   |
| CADHERIN 3, P-CADHERIN (PLACENTAL)<br>AA425556  |
| PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, K<br>R79082  |
| SRY (SEX-DETERMINING REGION Y)-BOX 9 (CAMPOMELIC DYSPLASIA, AUTOSOMAL SEX-REVERSAL)<br>AA400739               |
| KERATIN 13<br>W23757  |
| KERATIN 13<br>W60057  |
| 2255577<br>AI679149   |
| INTEGRIN, BETA 4<br>AA076514  |
| TROPONIN I, SKELETAL, FAST<br>AA181334  |

Table 10: ErbB2 gene subset

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| ERBB-2 RECEPTOR PROTEIN-TYROSINE KINASE PRECURSOR<br>AA025141  |
| ERBB2<br>AA481939  |
| ERBB2-POLYA<br>X03363  |
| V-ERB-B2 AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL ONCOGENE HOMOLOG 2<br>(NEURO/GLIOBLASTOMA DERIVED ONCOGENE HOMOLOG)<br>AA443351 |
| V-ERB-B2 AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL ONCOGENE HOMOLOG 2<br>(NEURO/GLIOBLASTOMA DERIVED ONCOGENE HOMOLOG)<br>AA025141 |
| GROWTH FACTOR RECEPTOR-BOUND PROTEIN 7<br>H53703   |
| STEROIDOGENIC ACUTE REGULATORY PROTEIN RELATED<br>AA504710   |
| 68400<br>T57034  |
| 68400<br>T57034  |
| SWI/SNF RELATED, MATRIX ASSOCIATED, ACTIN DEPENDENT REGULATOR OF CHROMATIN,<br>SUBFAMILY E, MEMBER 1<br>W63613               |
| TNF RECEPTOR-ASSOCIATED FACTOR 4<br>AA598826   |
| 347348<br>W81186   |
| FLOTILLIN 2<br>R73545  |
| TGFB1-INDUCED ANTI-APOPTOTIC FACTOR 1<br>AA446222  |

Table 11: Endothelial Gene Subset

|   |
|---|
| TISSUE FACTOR PATHWAY INHIBITOR (LIPOPROTEIN-ASSOCIATED COAGULATION INHIBITOR)<br>T47454  |
| ALDEHYDE DEHYDROGENASE 1, SOLUBLE<br>AA664101   |
| HOMO SAPIENS MRNA FOR KIAA0758 PROTEIN, PARTIAL CDS<br>N95226   |
| VON WILLEBRAND FACTOR<br>AA487787   |
| PLATELET/ENDOTHELIAL CELL ADHESION MOLECULE (CD31 ANTIGEN)<br>R22412  |
| MANIC FRINGE (DROSOPHILA) HOMOLOG<br>H22922   |
| INTERCELLULAR ADHESION MOLECULE 2<br>R21535   |
| 245147<br>N76361  |
| REGULATOR OF G-PROTEIN SIGNALLING 5<br>AA668470   |
| TEK TYROSINE KINASE, ENDOTHELIAL (VENOUS MALFORMATIONS, MULTIPLE CUTANEOUS<br>AND MUCOSAL)<br>H02848  |
| LIM BINDING DOMAIN 2<br>H74106  |
| KINASE SCAFFOLD PROTEIN GRAVIN<br>AA478542  |
| 359722<br>AA011182  |
| TYROSINE KINASE WITH IMMUNOGLOBULIN AND EPIDERMAL GROWTH FACTOR HOMOLOGY<br>DOMAINS<br>AA432062   |
| CD34 ANTIGEN<br>AA434483  |
| HUMAN DNA SEQUENCE FROM CLONE 1033B10 ON CHROMOSOME 6P21.2-21.31. CONTAINS<br>THE BING5 GENE, EXONS 11 TO 15 OF THE BING4 GENE, THE GENE FOR GALT3 (BETA3-<br>GALACTOSYLTRANSFERASE), THE RPS18 (40S RIBOSOMAL PROTEIN S18) GENE, THE SACM2<br>N78611 |
| 69672<br>T53626   |
| HOMO SAPIENS KDR/FLK-1 PROTEIN MRNA, COMPLETE CDS<br>AA026831   |

Table 12: Stromal/Fibroblast Gene Subset

|  |
|--|
| MUSCULIN (ACTIVATED B-CELL FACTOR-1)<br>AA470081   |
| COLLAGEN, TYPE V, ALPHA 1<br>R75635  |
| 471748<br>AA035018   |
| SMOOTH MUSCLE ACTIN, ALPHA2<br>AA040169  |
| TRANSGELIN/SM22<br>AA010664  |
| SMOOTH MUSCLE PROTEIN 22-ALPHA<br>AA010664   |
| LUMICAN<br>AA035657  |
| FIBULIN 1<br>AA614680  |
| COLLAGEN, TYPE VI, ALPHA 3<br>R62603   |
| HOMO SAPIENS OSF-2 MRNA FOR OSTEObLAST SPECIFIC FACTOR 2 (OSF-2P1), COMPLETE CDS<br>AA598653 |
| COLLAGEN, TYPE III, ALPHA 1 (EHLERS-DANLOS SYNDROME TYPE IV, AUTOSOMAL DOMINANT)<br>T98612   |
| COLLAGEN, TYPE I, ALPHA 1<br>W90360  |
| COLLAGEN, TYPE I, ALPHA 2<br>AA490172  |
| COLLAGEN, TYPE III, ALPHA 1 (EHLERS-DANLOS SYNDROME TYPE IV, AUTOSOMAL DOMINANT)<br>AA044829 |
| COLLAGEN, TYPE III, ALPHA 1 (EHLERS-DANLOS SYNDROME TYPE IV, AUTOSOMAL DOMINANT)<br>T98612   |
| COLLAGEN, TYPE I, ALPHA 2<br>W93067  |
| THY-1 CELL SURFACE ANTIGEN<br>AA496283   |
| HOMO SAPIENS, ALPHA-1 (VI) COLLAGEN<br>AA046525  |
| COLLAGEN, TYPE VI, ALPHA 1<br>AA047209   |
| COLLAGEN, TYPE VI, ALPHA 1<br>AA047209   |
| HUMAN ALPHA-2 COLLAGEN TYPE VI MRNA, 3' END<br>AA633747                                      |
| HUMAN METHIONINE SYNTHASE MRNA, COMPLETE CDS<br>AA233650                                     |
| 265694<br>N25353   |

Table 13: B-cell gene subset

|  |
|--|
| IMMUNOGLOBULIN GAMMA 3 (GM MARKER)<br>AA663981   |
| COLONY STIMULATING FACTOR 1 (MACROPHAGE)<br>N92646   |
| NEUTROPHIL CYTOSOLIC FACTOR 1 (47KD, CHRONIC GRANULOMATOUS DISEASE, AUTOSOMAL 1)<br>AA489666 |
| IMMUNOGLOBULIN LAMBDA-LIKE POLYPEPTIDE 2<br>W73790   |
| IMMUNOGLOBULIN LAMBDA LIGHT CHAIN<br>R50297  |
| HUMAN REARRANGED IMMUNOGLOBULIN LAMBDA LIGHT CHAIN MRNA<br>N64851                            |
| HUMAN REARRANGED IMMUNOGLOBULIN LAMBDA LIGHT CHAIN MRNA<br>T67053                            |
| HUMAN IG J CHAIN GENE<br>H24896  |
| IMMUNOGLOBULIN J CHAIN<br>H24896   |
| HUMAN IG J CHAIN GENE<br>T70057  |
| MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DQ BETA 1<br>R73128                              |
| IMMUNOGLOBULIN MU<br>H73590  |
| EARLY DEVELOPMENT REGULATOR 2 (HOMOLOG OF POLYHOMEOTIC 2)<br>AA598840                        |
| MAX-INTERACTING PROTEIN 1<br>A1087032  |

Table 14: Adipose-enriched/Normal breast gene subset

|  |
|--|
| MESENCHYME HOMEO BOX 1<br>AA426311   |
| INSULIN-LIKE GROWTH FACTOR 1 (SOMATOMEDIN C)<br>AA456321                   |
| CYCLIN-DEPENDENT KINASE INHIBITOR 1C (P57, KIP2)<br>R81336                 |
| 78946<br>T61792  |
| FATTY ACID BINDING PROTEIN 4, ADIPOCYTE<br>AA046090                        |
| FATTY ACID BINDING PROTEIN 4, ADIPOCYTE<br>A1652163                        |
| FATTY ACID BINDING PROTEIN 4, ADIPOCYTE<br>N92901                          |
| MDGI/FATTY ACID BINDING PROTEIN 3, MUSCLE AND HEART<br>AA128926            |
| CD36 ANTIGEN (COLLAGEN TYPE I RECEPTOR, THROMBOSPONDIN RECEPTOR)<br>R09416 |
| CD36 ANTIGEN (COLLAGEN TYPE I RECEPTOR, THROMBOSPONDIN RECEPTOR)<br>N39161 |
| GLUTATHIONE PEROXIDASE 3 (PLASMA)<br>AA664180                              |
| FOUR AND A HALF LIM DOMAINS 1<br>AA456394                                  |
| ALCOHOL DEHYDROGENASE 2 (CLASS I), BETA POLYPEPTIDE<br>N93428              |
| AQUAPORIN 7<br>H27752  |
| 484535<br>AA036974   |
| LIPOPROTEIN LIPASE<br>AA633835   |
| GLYCEROL-3-PHOSPHATE DEHYDROGENASE 1 (SOLUBLE)<br>AA192547                 |
| RETINOL-BINDING PROTEIN 4, INTERSTITIAL<br>T72220                          |
| INTEGRIN, ALPHA 7<br>AA055979  |
| 85660<br>T62068  |
| PHOSPHOLEMMAN<br>H57136  |
| AQUAPORIN 1 (CHANNEL-FORMING INTEGRAL PROTEIN, 28KD)<br>H24316             |
| APOLIPOPROTEIN A-I<br>R97710   |
| SMALL INDUCIBLE CYTOKINE SUBFAMILY A (CYS-CYS), MEMBER 14<br>R96668        |
| PEROXISOME PROLIFERATIVE ACTIVATED RECEPTOR, GAMMA<br>AA088517             |
| ENDOTHELIN RECEPTOR TYPE B<br>H28710                                       |

Table 15: Macrophage gene subset

|  |
|--|
| ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SX WARNING ENTRY !!!! [H.SAPIENS]<br>T94293                   |
| CHITINASE 1<br>T94272  |
| 53341<br>R15934  |
| SMALL INDUCIBLE CYTOKINE SUBFAMILY A (CYS-CYS), MEMBER 18, PULMONARY AND<br>ACTIVATION-REGULATED<br>AA495985 |
| FOLYLPOLYGLUTAMATE SYNTHASE<br>R44864  |
| LYSOZYME (RENAL AMYLOIDOSIS)<br>N63943   |
| LYSOZYME (RENAL AMYLOIDOSIS)<br>N63943   |
| TRANSCRIPTION FACTOR AP-2 ALPHA (ACTIVATING ENHANCER-BINDING PROTEIN 2<br>ALPHA)<br>N63770                   |
| LIPASE A, LYSOSOMAL ACID, CHOLESTEROL ESTERASE (WOLMAN DISEASE)<br>AA630104                                  |
| CD68 ANTIGEN<br>AA421296   |
| ACID PHOSPHATASE 5, TARTRATE RESISTANT<br>R08816   |
| FC FRAGMENT OF IGE, HIGH AFFINITY I, RECEPTOR FOR; GAMMA POLYPEPTIDE<br>R79170                               |
| CATHEPSIN Z<br>AA488341  |

Table 16: T-cell gene subset

|   |
|---|
| INTERLEUKIN 10 RECEPTOR, ALPHA<br>AA437226  |
| INTEGRIN, ALPHA L, CD11A<br>R48796<br>742143<br>AA406027  |
| T-CELL RECEPTOR, BETA CLUSTER<br>N91921<br>80186<br>T64192  |
| T-CELL RECEPTOR, DELTA (V,D,J,C)<br>AA670107  |
| ESTS, WEAKLY SIMILAR TO S-ACYL FATTY ACID SUNTHETASE THIO ESTER HYDROLASE, MEDIUM<br>CHAIN [R.NORVEGICUS]<br>AA470066 |
| LYMPHOCYTE-SPECIFIC PROTEIN TYROSINE KINASE<br>AA420981   |
| CD3D ANTIGEN, DELTA POLYPEPTIDE (TIT3 COMPLEX)<br>AA055946  |
| CD3G ANTIGEN, GAMMA POLYPEPTIDE (TIT3 COMPLEX)<br>T66800  |
| TRANSCRIPTION FACTOR DP-2 (E2F DIMERIZATION PARTNER 2)<br>AA465444  |



Table 2

|    | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF12<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1  | 1       | 0.2038           | -0.5431             | -0.045                  | 0.04438         | -0.1831              | -0.4656         | 0.065          | 0.4644          | -4.215                |
| 2  | 1       | -0.03563         | -0.8125             | -2.014                  | -0.525          | 0.2825               | -2.595          | 0.3356         | 0.475           | -0.4644               |
| 3  | 1       | -0.1206          | 0.4425              | 0.6706                  | -0.65           | 0.2825               | -1.04           | 0.3706         | 1.14            | -1.829                |
| 4  | 1       | 0.02             | 1.693               | -0.4388                 |                 | -0.5369              | -1.559          |                | -0.01938        |                       |
| 5  | 1       | -0.4288          |                     | -0.6375                 | -0.2581         |                      | -2.018          | 1.882          | 1.442           | 1.952                 |
| 6  | 1       | -0.1513          |                     | -0.33                   | -0.1206         |                      |                 |                | 1.209           | 0.36                  |
| 7  | 1       | -0.07125         | -0.2781             | -0.47                   | 0.1194          | -0.5581              | -0.5506         | 1.5            | 1.389           | 1.09                  |
| 8  | 1       | -0.6612          | 0.3319              | -0.3                    | -0.000625       | -0.8081              | -0.8606         | 0.95           | 0.4894          | 0.53                  |
| 9  | 1       | 0.4538           |                     | -0.175                  | 0.6044          | -0.5831              | -0.4056         | 0.075          | -0.5456         | -0.205                |
| 10 | 1       | 0.6588           |                     | 0.47                    | -0.01052        | -1.238               | 0.3194          | 0.13           | 0.5794          | 0.49                  |
| 11 | 1       | 0.2644           | 0.8975              | 0.8356                  |                 | 0.6275               | -0.245          | 0.3056         |                 | 0.2456                |
| 12 | 1       | -0.3812          | 0.2519              | -2.91E-09               |                 | 0.6619               | -0.2206         | 0.22           |                 | 0.59                  |
| 13 | 1       | 0.01875          | -0.4881             | -0.43                   | 1.409           | -0.4481              | 0.4994          | 0.53           | 1.189           | 0.3                   |
| 14 | 1       | -1.059           | 1.184               | -1.348                  | 1.012           | -1.936               | -1.948          | -0.6775        | 0.6119          | 2.122                 |
| 15 | 1       | -0.755           | 1.438               | -0.6638                 | 1.336           |                      | -2.544          |                | 0.8456          |                       |
| 16 | 1       | -0.86            | -0.4669             | 0.7812                  | 0.5706          | -0.5069              | 0.4706          | -0.3788        | 0.6306          | -0.2988               |
| 17 | 1       | 1.353            | 0.01594             | 0.7141                  | 1.673           | -0.5741              |                 | 1.484          | -0.7366         | 1.314                 |
| 18 | 1       | 0.7628           | 0.01594             | -0.02594                | 0.6934          | -1.394               | -0.9466         | -0.2859        | -0.01656        | 3.454                 |
| 19 | 1       | 0.2587           | 1.952               | -0.27                   | -1.211          | -0.5681              | -1.071          |                | -1.801          | -0.34                 |
| 20 | 1       | -0.3913          | -0.9681             | -0.64                   | -0.5806         | -0.7181              | -1.001          | 0.26           | 0.06937         | 0.33                  |
| 21 | 1       | -0.1306          | 2.583               | -0.4894                 | -0.53           | -0.8875              |                 |                |                 |                       |
| 22 | 1       | 0.05875          | 0.5119              | -0.56                   | -0.5006         | -0.5181              | -0.1406         | -0.68          | -1.291          | 0                     |
| 23 | 1       | -1.161           | -0.1981             | 0.3                     | -0.8506         | -0.7181              | 0.6894          | 1.68           | 0.4694          | 1.53                  |
| 24 | 1       | -0.1513          | -0.07813            | -0.64                   | 0.4194          | 0.5719               | -2.131          | 1.17           | 0.6894          | -0.23                 |
| 25 | 1       | -0.4663          | -1.203              | -1.065                  | 0.5844          | -0.4731              | -3.336          | 1.115          | 0.8144          | -0.585                |
| 26 | 1       | -1.08            | 0.3231              | 0.5912                  | 0.9506          | 0.8831               | 0.2606          |                | 0.000625        | 0.3812                |
| 27 | 1       | 1.793            | 3.056               | 3.094                   | 2.123           | -0.2741              | -1.217          |                |                 | -1.366                |
| 28 | 1       | -0.7863          | -0.7331             | -0.465                  | -0.7456         | 1.537                | -1.676          | -1.435         | 2.154           | 0.145                 |
| 29 | 1       | 0.1288           | -0.8881             | -0.83                   | -0.000625       | -0.1981              | -0.9706         | -1.81          | 1.209           | 1.36                  |
| 30 | 1       | -0.1312          | -0.7681             | -2.91E-09               | -0.5306         | -0.3481              | 0.3894          | 1.84           | 1.009           | 1.4                   |
| 31 | 1       | -0.01656         | 0.01656             | -0.1053                 | -0.2859         |                      | 0.09406         | 2.425          | 0.7841          | 1.555                 |
| 32 | 1       | -0.4713          | -0.5381             | 0.93                    | -1.231          | 0.2219               | 0.1994          | 3.46           | -0.7306         | 2.74                  |
| 33 | 1       | -1.156           | 0.5769              | 2.095                   | -1.086          |                      |                 |                |                 | 1.405                 |
| 34 | 1       | -0.4612          |                     | -0.2                    | -0.5206         | -0.02812             | 0.3794          |                |                 | 1.17                  |
| 35 | 1       | 0.4687           | 0.3719              | 0.81                    | -0.02063        | -1.168               | -1.201          | 2.34           | 3.429           | 0.1                   |
| 36 | 1       | 0.4828           | -0.1441             | 0.2341                  | 0.3134          | 0.03594              |                 | 1.984          | 2.253           | -0.07594              |

Table 2

|    | GWEIGHT | HMEC-C    | HMEC-INFA | HMEC-C CONFL2 | 184AA     | 184A1-LATE | 184B5    | HMVEC  | HUVEC  | MDA-MB-321 |
|----|---------|-----------|-----------|---------------|-----------|------------|----------|--------|--------|------------|
|    |         | ARRY2X    | ARRY4X    | ARRY3X        | ARRY5X    | ARRY1X     | ARRY0X   | ARRY7X | ARRY6X | ARRY11X    |
| 37 | 1       | 0.06875   | -0.7681   | -1.22         | -1.118    | -2.208     | -1.671   | 1.96   | 2.869  | 2.04       |
| 38 | 1       | -0.8188   | 1.014     | -1.278        | -1.118    |            | -1.178   | 3.412  | 3.262  | -0.6075    |
| 39 | 1       | -0.2612   | 0.7819    | -0.96         | -1.971    | -1.458     | -1.421   | 3.13   | 3.069  | -1.05      |
| 40 | 1       | -0.9263   |           | -2.365        | -1.896    |            |          | 1.445  | 2.244  | 1.265      |
| 41 | 1       | -0.6712   | -1.098    | -1.34         | -1.821    | -1.398     | -1.821   | 1.77   | 2.299  | 1.64       |
| 42 | 1       | -0.1512   | -1.198    | -0.8          | -1.321    | -0.1381    | -1.921   | 2.65   | 3.129  | 2.53       |
| 43 | 1       | -0.3512   | -0.6981   | -0.14         | -0.1306   | -0.2481    | -0.7706  | 1.94   | 2.789  | -0.47      |
| 44 | 1       | -0.07719  | -0.06406  | 0.01406       | -0.4666   | -0.01406   | 0.1734   | 3.424  | 2.133  | -0.05594   |
| 45 | 1       | -0.2488   | 0.1244    | -0.2775       | 2.252     | 0.8744     | 0.4819   | 2.002  | 0.3019 | -0.7475    |
| 46 | 1       | 0.02438   | 0.2575    | 0.1456        | -0.025    | -0.2425    | -0.865   | 1.016  | 0.425  | 1.076      |
| 47 | 1       | -0.1206   | -0.5675   | -1.559        | -1.21     | -0.4475    | 0.86     | 2.731  | 2      | 1.921      |
| 48 | 1       | -0.005625 | 0.3375    | 0.005625      | -0.175    |            | -1.075   | 1.026  | 3.195  | -0.4144    |
| 49 | 1       | -2.26E-09 |           | 1.941         | -0.7894   | -4.047     | -1.719   |        | 4.131  | 0.4812     |
| 50 | 1       | -0.9212   |           |               | -1.281    | -0.5781    | -1.091   | 2.87   | 2.959  |            |
| 51 | 1       | 1.87      |           | 1.551         | 0.1906    | 0.7531     | -0.5094  | 3.611  | 3.561  | 1.911      |
| 52 | 1       | -0.03125  |           | -0.55         | 2.589     |            |          | 4.83   | 3.229  | 2.45       |
| 53 | 1       | -1.332    |           | 0.4491        | -1.752    | 0.03094    | -1.122   | 3.719  | 4.498  | 1.969      |
| 54 | 1       | 0.1494    | 1.423     | -1.159        | -0.68     |            | 3.26     | 7.041  | 6.48   |            |
| 55 | 1       | -0.8588   | 0.5244    | 0.2125        | -0.09813  | 0.4644     | -0.5281  | 5.022  | 2.552  | 3.982      |
| 56 | 1       | 0.3212    |           | 0.2025        | -0.6081   | -0.2756    |          |        | 4.922  | -0.1075    |
| 57 | 1       | -0.7462   | 1.047     | 0.755         | -0.8856   | 0.09688    | 0.2944   |        | 7.354  | -0.975     |
| 58 | 1       | 1.921     | 1.754     | 1.132         | -0.3881   |            | -2.428   | 4.462  | 5.242  | -0.2575    |
| 59 | 1       | -0.8612   |           | -0.19         | -1.041    | -0.05812   | -2.071   | 7.66   | 8.849  | 2.34       |
| 60 | 1       | -0.5622   | -0.1891   | -0.5009       | -1.592    | -0.02906   | -1.072   | 3.969  | 4.698  |            |
| 61 | 1       | -1.036    | 0.7969    | -0.345        | -1.286    | 0.9669     | -1.146   |        | 8.644  | 0.025      |
| 62 | 1       | -0.3012   |           | -2.91E-09     |           | 0.2419     | 0.06937  | 5.39   | 4.829  | -0.91      |
| 63 | 1       | -2.26E-09 | 0.1131    | -0.6488       | -2.129    |            |          | 5.261  | 5.331  | -1.419     |
| 64 | 1       | -2.26E-09 | 0.4531    | -0.4988       | -1.239    | 0.1631     | -1.399   | 5.661  | 4.221  | 0.1712     |
| 65 | 1       | 0.1588    | 1.572     | -0.24         | -0.1406   | -1.068     | -2.021   | 6.78   | 5.629  | -0.89      |
| 66 | 1       | -0.1112   | 0.05188   | -0.51         | -0.7406   | -0.4381    |          | 7.67   | 6.439  | 0.11       |
| 67 | 1       | -1.161    | 0.7219    | -0.23         |           |            | -1.851   | 5.83   | 4.629  |            |
| 68 | 1       | 0.1838    | -0.2431   | -0.055        | 0.02438   | -0.1431    | -0.3656  | 3.975  | 3.864  | -0.045     |
| 69 | 1       | 0.2188    | -0.1181   | -2.91E-09     | -0.000625 | -0.1681    | -0.01063 | 6.11   | 6.689  | 0.98       |
| 70 | 1       | 0.3787    |           | 0.57          | 2.079     | 0.8319     | 2.719    | 5.47   | 4.389  | -0.35      |
| 71 | 1       | -0.4612   | -0.2181   | -0.07         | 0.6594    | 1.532      | 0.7794   | 3.05   | 2.999  | -0.4       |
| 72 | 1       | -0.3013   | 1.792     | 0.19          | -1.331    |            |          | 3.99   | 3.279  | -4.02E-09  |
| 73 | 1       | -0.8213   | 0.2619    | -0.78         | -1.781    | -0.4781    | -1.641   | 4.66   | 4.689  | 1.33       |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 74  | 1       | -0.4513          | -0.8881             | -1.22                   | -0.01063        | -0.06813             | -1.391          | 2.34            | 2.159           | 1.2                   |
| 75  | 1       | -2.26E-09        | -0.06687            | 0.1312                  | -0.009375       | 0.3831               | 0.2306          | 3.861           | 3.621           | -1.399                |
| 76  | 1       | -0.1244          | -0.8512             | 0.3569                  | 0.2063          | -0.8112              | 0.6262          | 3.907           | 3.696           |                       |
| 77  | 1       | 0.2688           | -0.2381             | 0.16                    | 0.2094          | -0.6281              | -0.2906         | 3.03            | 2.829           | -0.47                 |
| 78  | 1       | -0.1312          | 0.7719              | 0.89                    | 1.159           | 0.3719               | -0.4906         | 1.07            | 1.599           | -0.04                 |
| 79  | 1       | 1.121            | 1.144               | 0.5125                  | 3.042           | 1.974                | -1.198          | 3.602           | 4.302           | 1.022                 |
| 80  | 1       | 1.389            | -0.2981             | 0.58                    | 2.609           | 1.642                | -0.9206         | 3.61            | 4.329           | 0.75                  |
| 81  | 1       | 0.9078           | 0.7209              | 0.7591                  | 1.778           | -0.7991              |                 | 1.659           | 3.218           | -1.541                |
| 82  | 1       | -0.1331          | 0                   | -0.4619                 | -1.063          | -0.88                | -1.723          | 4.528           | 5.727           | -0.07188              |
| 83  | 1       | 0.1794           | -0.2575             | -0.4994                 | -0.85           |                      | -1.08           | 4.631           | 5.98            | -0.2294               |
| 84  | 1       | 0.3188           |                     | -0.1                    | -1.261          |                      | -0.2406         |                 | 3.749           | 0                     |
| 85  | 1       | 3.004            | 0.7169              |                         | -1.166          | -0.7931              |                 |                 |                 | -0.495                |
| 86  | 1       | 4.229            | 2.112               | 1.03                    | -1.541          | 0.2519               | -1.181          | -0.13           | 3.319           | -0.13                 |
| 87  | 1       | 2.049            | 1.492               | 1.27                    | 0.8994          |                      | -2.691          | 1.43            | 3.249           | 0                     |
| 88  | 1       | -2.26E-09        |                     | -0.2988                 | -1.709          |                      | 0.4706          |                 |                 | -0.2088               |
| 89  | 1       | -0.03063         | 1.032               | 0.8206                  | -1.12           | -0.2775              | -0.64           | 1.211           | 3               | 1.921                 |
| 90  | 1       | 0.1478           | 0.09094             | -0.09094                | -0.9716         | -1.929               | -2.772          | 3.469           | 2.538           | 2.649                 |
| 91  | 1       | 2.79             | 2.373               | 1.831                   | 2.491           | -0.5169              | 0.000625        | 3.081           | 3.271           | 0.9513                |
| 92  | 1       | 2.8              | 2.193               | 1.371                   | 3.011           | -0.4369              | 0.000625        | 3.891           | 3.681           | 1.051                 |
| 93  | 1       | 1.673            | 1.626               | 1.544                   | 2.273           | -0.01406             |                 | 3.124           | 3.203           | -1.106                |
| 94  | 1       | 2.769            | 2.592               | 2.08                    | 3.739           | -1.688               |                 |                 | 4.189           | -1.09                 |
| 95  | 1       | 0.6269           | 0                   | 0.008125                | 2.167           | -0.05                | -2.973          | 3.098           | 2.257           | 2.598                 |
| 96  | 1       | 1.029            | -0.1881             | -2.91E-09               | 0.7294          | -3.168               | -3.211          | 2.96            | 2.979           | 0.66                  |
| 97  | 1       | 1.049            | -0.3681             | -2.91E-09               | 0.6294          | -3.898               | -4.061          | 3.05            | 3.319           | 1.04                  |
| 98  | 1       | 1.503            | 0.07594             | 0.3941                  | 0.6034          | -0.8041              | -2.787          | 2.154           | 2.733           | -3.156                |
| 99  | 1       | 1.188            | 0.04094             | -0.04094                | 0.5484          | 0.3409               | -1.022          | 1.999           | 2.708           | -2.391                |
| 100 | 1       | 1.399            | -0.1281             | 0.09                    | 0.4294          | -0.3881              | -2.751          | 2.18            | 3.249           | -2.48                 |
| 101 | 1       | 1.759            | 0.2419              | -0.05                   | 0.6394          | -0.3781              | -3.801          | 2.41            | 3.069           | -3.27                 |
| 102 | 1       | 1.758            | 0.2609              | 1.669                   | 2.248           | -2.099               | -2.682          | 1.789           | 3.348           | -1.731                |
| 103 | 1       | 0.4769           | 0                   |                         | 0.8675          | -0.93                |                 | 0.5781          | 2.237           | -1.142                |
| 104 | 1       | 0.2937           | -0.6131             | -0.125                  | 0.7444          | -1.423               | -1.266          | 2.205           | 2.664           | -0.455                |
| 105 | 1       | -0.2912          | -0.1581             | -2.91E-09               | 0.1494          | 0.2419               | -2.081          | 1.92            | 2.119           | -0.85                 |
| 106 | 1       | 1.667            | 0                   | 1.228                   | 0.8275          | -0.53                | -2.273          | 3.128           | 3.297           | 1.728                 |
| 107 | 1       | -0.4313          | -0.8581             | 0.05                    | 0.4994          | -0.03813             | -0.6206         | 0.8             | 1.499           | 0.2                   |
| 108 | 1       | 0.4312           | -0.05562            | -0.0375                 | 0.2519          | 0.1844               | -0.1881         | 1.592           | 2.392           | 1.062                 |
| 109 | 1       | 1.294            | 0.4969              | 0.015                   | 0.8944          | -1.533               | -1.376          | 4.185           | 2.514           | 0.045                 |
| 110 | 1       | 2.269            | 1.242               | 0.95                    | 1.679           | -1.008               | -1.331          | 7.29            | 4.239           | -0.31                 |

Table 2

|     | GWEIGHT | HMEC-C    | HMEC+INFA | HMEC-C_CONF2 | 184AA     | 184A1-LATE | 184B5    | HMVEC  | HUVEC   | MDA-MB-321 |
|-----|---------|-----------|-----------|--------------|-----------|------------|----------|--------|---------|------------|
|     |         | ARRY2X    | ARRY4X    | ARRY3X       | ARRY5X    | ARRY1X     | ARRY0X   | ARRY7X | ARRY6X  | ARRY11X    |
| 111 | 1       | 1.559     | 1.262     |              | 1.299     | -0.1581    | -1.201   |        | 3.379   | -0.78      |
| 112 | 1       | -0.2812   | 0.4319    | 0.73         | -0.1306   | 0.3119     | -0.5706  | 0.87   | 1.219   | 0          |
| 113 | 1       | 1.439     | 1.502     | 1.13         |           |            |          | 2.37   | 2.309   | 0          |
| 114 | 1       | 1.329     | 0.5119    | 0.5          | -0.4406   | -1.608     | -1.451   | 2.63   | 3.059   | 0.88       |
| 115 | 1       | 1.117     | 0         | -0.6819      | -0.5425   | -2.56      | -1.923   | 4.738  | 5.377   | 2.438      |
| 116 | 1       | 1.269     | 0.1519    | -0.51        | -0.2606   | -1.688     | -1.381   | 4.57   | 5.029   | 2.54       |
| 117 | 1       | 1.367     | 0         | -0.5519      | -0.4225   | -1.83      | -1.873   | 4.018  | 5.357   | 2.728      |
| 118 | 1       | -0.1706   | -0.4275   | 0.5306       | -0.03     | 0.6725     | 0.03     | 1.731  | 4.47    | -2.349     |
| 119 | 1       | -2.19     |           | -0.5788      | -2.639    |            | 0.00625  |        | 2.261   | 0.00125    |
| 120 | 1       | -2.321    | -0.3781   | -2.26        | -2.521    |            | -2.681   | 2.03   | 2.209   | 0.91       |
| 121 | 1       | -0.6731   |           | -1.622       | -3.023    | -2.79E-10  |          | 3.658  | 3.037   | -2.132     |
| 122 | 1       | -1.146    | 0.4369    | -1.155       | -2.526    |            |          |        | 2.954   | -0.015     |
| 123 | 1       | 0.4369    | 0         | 1.738        | 0.6775    | 1.96       |          | 2.468  | 3.127   | -2.652     |
| 124 | 1       | 4.174     | 2.717     | 0.035        | 1.954     | -1.063     | -0.05562 | 6.655  | 6.744   | 5.055      |
| 125 | 1       | 2.089     | 1.742     |              | -0.000625 | -1.288     | -0.5106  |        | 3.239   | 2.23       |
| 126 | 1       | -0.4912   | -1.558    | -1.02        | -0.5206   | -2.438     | -3.281   | 2.65   | 4.079   | 1.69       |
| 127 | 1       | -0.1188   | -0.09562  | -0.4275      | -0.7381   | -0.5556    | -1.598   | 2.422  | 3.922   | 1.432      |
| 128 | 1       | -0.002187 | -0.2291   | -1.271       | -0.2116   | 0.0009375  | -1.422   | 0.8591 |         | 1.259      |
| 129 | 1       | -0.535    |           | -0.8738      | -2.714    |            |          | 2.686  | 2.576   | 1.546      |
| 130 | 1       | -1.081    | -0.8581   | -2.91E-09    | -1.411    | -2.668     | -3.651   | 2.51   | 2.319   | 0.72       |
| 131 | 1       | -0.5472   | -0.1841   |              |           |            |          | 3.404  | 2.383   |            |
| 132 | 1       | 0.1987    | -0.7881   | -0.89        | -2.411    | -0.2881    | -1.791   | 3      | 4.579   | 4.59       |
| 133 | 1       | -0.2812   | -0.09812  | -0.74        |           | 2.702      | -0.1006  | 6.68   | 3.469   | 1.71       |
| 134 | 1       | -0.4712   |           | -0.98        | 0.2094    | 0.8019     | -1.071   | 2.4    | 2.019   | -0.5       |
| 135 | 1       | -0.575    | 0.01813   | -0.3838      | -0.3844   | 1.378      | -1.104   | 2.166  | 2.216   | -0.8637    |
| 136 | 1       | -1.131    |           | -0.29        | 0.2894    |            | 0.9794   |        | 2.449   | -1.47      |
| 137 | 1       | -0.1912   | 0.5319    | 0.01         | 0.1194    | -0.8281    | 0.4194   |        | 1.689   | -1.3       |
| 138 | 1       | -0.1113   |           | 0.98         | -1.261    | -1.158     | -1.001   | -0.29  | -1.461  | 2.72       |
| 139 | 1       | -0.1113   | 1.332     |              |           | -0.6981    | -1.071   |        | -1.001  |            |
| 140 | 1       | -0.4512   | -0.3181   | -0.44        | -1.041    | 0.05188    | 0.3794   | -0.31  | -0.2406 | 0.97       |
| 141 | 1       | 1.769     | 1.022     | 0.84         | -0.7806   | -0.1181    | -0.2206  |        | -1.441  | -0.24      |
| 142 | 1       | 0.01875   | 1.112     | 0.33         | -2.041    |            |          | -1.37  | -2.151  |            |
| 143 | 1       | 0.2988    | 0.6519    | 0.29         | -1.111    | 0.7019     |          | -1.26  | -2.421  | -0.7       |
| 144 | 1       | 0.3438    | 0.4669    | 0.025        |           | -0.7231    | 0.5844   |        |         | -0.025     |
| 145 | 1       | 2.018     | 0.7409    | 1.079        | 0.1284    | -0.1291    | 0.8084   |        | -1.672  | -1.711     |
| 146 | 1       | 1.599     | 0.6219    | 0.46         | 1.739     | -0.6981    | -0.3906  |        | 1.489   | -1.22      |
| 147 | 1       | 4.549     |           | 4.36         | -0.4706   |            | 3.729    |        |         |            |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 148 | 1       | 2.17             | 0.5031              | 0.9112                  | -0.2394         | -0.6169              | 0.6906          |                 | 0.000625        | 0.4112                |
| 149 | 1       | 1.789            | 0.9525              | 1.191                   | 1.07            | -1.927               | -0.2            | -0.6694         | -0.12           | 1.301                 |
| 150 | 1       | 2.929            | 1.812               | 2.34                    | 3.119           |                      | 1.749           |                 | -3.231          | -3.52                 |
| 151 | 1       | 1.509            | -0.05812            | 2.04                    | 2.389           |                      | 1.099           |                 |                 | -1.86                 |
| 152 | 1       | 2.689            | 1.622               | 3.07                    | 3.539           | -2.518               | 2.129           |                 |                 | -2.09                 |
| 153 | 1       | 2.459            | 1.302               | 3.18                    | 3.439           | -1.798               | 1.999           |                 |                 | -0.69                 |
| 154 | 1       | 2.409            |                     |                         |                 |                      |                 |                 |                 | 0.1                   |
| 155 | 1       | 2.629            | 1.862               | 3                       | 1.299           | -4.248               | -0.4506         | 0.82            | 1.559           | -2.34                 |
| 156 | 1       | 2.659            | 2.132               | 3.17                    | 1.249           | -4.658               | -0.3606         | 0.75            | 1.569           | -2.33                 |
| 157 | 1       | 1.909            | 1.872               | 1.7                     |                 | -0.8181              | 0.4894          | 1.24            | 0.8394          | -2.05                 |
| 158 | 1       | 3.159            | 3.792               | 2.671                   | 0.88            | -0.7475              | 0.69            | 1.081           | -0.44           | -0.5594               |
| 159 | 1       | 2.009            | 1.242               | 1.04                    | 1.089           | -1.178               | -0.5406         | 0.67            | 0.4594          | -0.74                 |
| 160 | 1       | 4.439            | 2.452               | 1.94                    | 0.4994          | -2.758               | -1.601          | 1.38            | 2.169           | 0.13                  |
| 161 | 1       | 2.189            | 1.382               | 1.56                    | -1.411          | -0.1081              | 0.3994          |                 | 0.1194          | -0.41                 |
| 162 | 1       | 1.88             | 1.163               | 0.1912                  | 1.261           | -0.9069              | -0.7494         |                 | -0.2394         | -0.3188               |
| 163 | 1       | 0.4488           | 0.05188             | 0.56                    | 0.7494          | -0.06812             | 1.709           | 0               | -0.8806         | 1.36                  |
| 164 | 1       | 0.1678           | 0.1409              | 0.2191                  | 0.5884          |                      | 1.698           | -0.1409         | -1.362          | 1.009                 |
| 165 | 1       | -0.05125         | 0.8019              | -0.11                   | -0.2806         |                      |                 |                 |                 | 0.46                  |
| 166 | 1       | 0.06937          |                     | 0.1606                  | -0.07           | 0.9625               | 0.57            |                 | 0.41            | 0.5706                |
| 167 | 1       | 0.6087           | -0.9981             | 0.85                    | 0.5394          | -0.2081              |                 |                 | -0.6506         | -0.06                 |
| 168 | 1       | -0.7212          | 0.3719              | -0.12                   | -1.031          | 0.4619               |                 |                 |                 | -0.66                 |
| 169 | 1       | 0.02344          |                     |                         |                 | -0.02344             | 0.1741          |                 | -0.6259         |                       |
| 170 | 1       | -0.085           | -0.3219             | 0.3862                  |                 |                      | 0.08562         |                 | -2.014          | 0.2562                |
| 171 | 1       | -0.1272          | -0.2441             | 0.3841                  | 0.2234          | 0.05594              | -0.2066         | -1.166          |                 |                       |
| 172 | 1       | -0.3213          |                     | -0.72                   | 0.2194          | 0.2219               | -1.081          | -0.36           | -0.5506         | 0.78                  |
| 173 | 1       | -2.26E-09        | -0.2669             | 0.5512                  | -0.5994         |                      | 0.09062         |                 | -0.8894         | 0.5512                |
| 174 | 1       | -0.3363          | 0.2369              | 0.015                   | -1.086          | 0.5969               | 0.03437         |                 |                 | -1.325                |
| 175 | 1       | -0.5412          |                     | 0.27                    | -1.201          | -0.6781              | -0.7806         |                 | 0.009375        | 0                     |
| 176 | 1       | 0.2537           |                     | 0.125                   | -0.7756         |                      | -1.016          |                 | -2.646          |                       |
| 177 | 1       |                  | 1.402               | -0.64                   | -0.7306         | -1.648               | -1.291          |                 | 2.429           | -0.1                  |
| 178 | 1       | 0.6144           |                     | -0.9344                 | -0.875          |                      | -0.145          |                 |                 | -0.4644               |
| 179 | 1       | -0.2312          | -0.3981             | -0.42                   | 0.4294          |                      | 0.4494          | -0.12           |                 | -0.32                 |
| 180 | 1       | 0.8688           | 0.1419              | 1.17                    | 2.569           | -0.4681              | -0.3106         | -0.21           | -0.4106         | 1.27                  |
| 181 | 1       | 0.8187           | 0.8219              | 1.36                    | 2.629           | -1.228               | -0.07063        | 0.2             | -0.4106         | 1                     |
| 182 | 1       | 0.155            | 2.118               | -0.3538                 | -0.5544         | -0.3119              | -0.1544         |                 |                 |                       |
| 183 | 1       | 0.04438          |                     | -1.364                  |                 |                      | -2.165          |                 |                 | -0.2144               |
| 184 | 1       | 0.03             | -0.9869             | 0.2312                  | -1.169          | -1.187               | -0.02938        |                 | -1.379          | 1.001                 |

Table 2

|     | GWEIGHT | HMEC-C    | HMEC+INFA | HMEC-C_CONFL2 | 184AA     | 184A1-LATE | 184B5    | HMEC      | HUVEC    | MDA-MB-321 |
|-----|---------|-----------|-----------|---------------|-----------|------------|----------|-----------|----------|------------|
|     |         | ARRY2X    | ARRY4X    | ARRY3X        | ARRY5X    | ARRY1X     | ARRY0X   | ARRY7X    | ARRY6X   | ARRY11X    |
| 185 | 1       | 0.1888    | -0.3981   |               | -0.8406   | -0.2781    | -0.7006  |           | -1.631   | 0.83       |
| 186 | 1       | -0.06125  | -0.3981   | 0.76          | -0.9406   | -0.1081    | -0.8006  | -0.85     | -1.051   | -0.37      |
| 187 | 1       | 0.66      |           | -0.5988       | -1.219    | -1.557     | -0.8194  |           | -2.329   | -0.2788    |
| 188 | 1       | 0.6378    | -0.04906  | -1.191        | -1.729    | -1.572     | -1.572   | -1.041    | -0.1816  | -0.3009    |
| 189 | 1       | 0.1669    | 0         | -0.7219       | -2.663    | -1.68      | -1.523   | -0.9919   | -1.453   | 0.4281     |
| 190 | 1       | 0.6488    | -0.7381   | -0.66         | -1.181    | -1.198     | -1.041   | -2.09     | -0.9706  | 0.23       |
| 191 | 1       | 0.2344    |           | -0.2344       | -0.695    | 1.568      | -0.895   |           | -1.485   |            |
| 192 | 1       | 0.9788    | 2.322     | 0.79          | -0.000625 | 2.912      | 0.7194   | -1.59     | -1.471   | -0.91      |
| 193 | 1       | -0.04875  | -0.7156   | -0.0475       | 0.6919    | 1.374      | -0.5581  | 0.9325    | -0.04813 | 0.3925     |
| 194 | 1       | 0.09      | -0.5369   | 0.4712        | -0.4694   | -0.6369    | -0.9494  | -0.1788   | 0.000625 | 0.5813     |
| 195 | 1       | -0.4612   | -1.038    | -2.91E-09     | -1.371    | -1.008     |          |           |          | 0.37       |
| 196 | 1       | 0.00875   | -0.1581   | -0.74         | -1.261    | 0.8519     | -1.321   | -0.47     | -1.731   | -0.17      |
| 197 | 1       | -0.61     | 0.6631    | -0.8788       | -1.019    | 1.063      | 0.000625 | -0.9888   | -0.2694  | -0.6787    |
| 198 | 1       | -0.6913   | 1.362     | -1.78         |           |            |          |           |          | -0.28      |
| 199 | 1       | -0.3812   | 3.152     | 2.43          | -0.03062  | 1.272      | 3.299    |           | -0.7106  | -0.58      |
| 200 | 1       | -2.26E-09 | 0.7431    | 0.9812        | 0.3006    | 0.2631     | 1.401    | -0.6688   | -0.7394  | -0.4288    |
| 201 | 1       | -0.6031   |           | 1.328         | -0.5625   | -2.79E-10  | 1.747    |           | -1.793   | -1.632     |
| 202 | 1       | -0.125    | -0.8219   | -0.05375      | 0.5956    | -0.08188   | 1.786    | 0.4262    | -0.07438 | -0.1138    |
| 203 | 1       | -0.24     | -0.08687  | -0.06875      | 0.4406    | 0.3931     | 1.461    | -0.1788   | 0.000625 | -0.4287    |
| 204 | 1       | -1.232    |           | -0.8809       | -0.9216   | -0.1591    |          |           | -2.052   | 0.3391     |
| 205 | 1       | -0.7663   | -0.9331   | -0.665        | -0.1856   | 0.8769     | 1.974    | 0.705     | 1.874    | 1.075      |
| 206 | 1       | -1.331    | -1.938    | -1.52         | -0.09063  | 1.132      | 3.549    | -0.22     | 1.929    | 1          |
| 207 | 1       | 0.05937   |           | 0.4406        | 1.26      | 1.743      | 4.33     |           | -1.43    | -0.05938   |
| 208 | 1       | -0.1672   | -0.5341   | 0.1241        | -0.1466   | -0.07406   | 3.133    | 0.2741    | 0.3934   | 1.074      |
| 209 | 1       | 1.089     | 0.9419    | 1.46          | 1.429     | 1.952      | 2.719    | -0.14     | -1.531   | 0          |
| 210 | 1       | 1.749     | 1.222     | 1.76          | 1.259     | 2.432      | 2.729    | -0.34     | -1.021   | 0          |
| 211 | 1       | 0.8088    | 0.3619    | 1.17          | 2.829     | 2.072      | 1.419    | -1.56     | -1.981   | -1.8       |
| 212 | 1       | -0.4613   | -0.09812  | -0.48         | -0.4606   | -1.248     | 0.6794   |           | 0.1194   | 0.72       |
| 213 | 1       | -0.2312   | 0.06188   | -0.42         | -0.9406   | -0.4781    | -0.4206  | 0         | 2.649    | -1         |
| 214 | 1       | -0.33     |           | -0.09875      | -0.7694   | 1.393      | 0.000625 |           |          |            |
| 215 | 1       | 0.8469    | 0.37      | 1.418         | 0.0975    | -2.79E-10  | -0.6725  | -1.722    | 0.2275   | 3.038      |
| 216 | 1       | -1.641    | -1.277    | 0.5906        | -2.04     | -2.857     | 1.34E-09 | -1.949    | 3.1      | 3.331      |
| 217 | 1       | 1.309     | 0.1931    | -0.53         | 1.399     |            |          |           |          | 3.14       |
| 218 | 1       | -0.11     |           | 0.7412        | -0.6694   | -0.1569    | 0.000625 |           |          | -1.429     |
| 219 | 1       | 1.339     |           | -0.24         |           | -0.1481    | -0.2206  | -3.54E-10 | 1.389    |            |
| 220 | 1       | 0.9969    | 0         | 0.5081        | 0.4575    | -0.1       | 0.1875   |           | -0.4625  | -0.3019    |
| 221 | 1       | 0.7938    | 1.477     | 0.115         | 0.1744    | -0.6531    | 0.1844   |           | -1.166   | -0.475     |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF12<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 222 | 1       | 1.109            | 1.762               | 0                       |                 | -2.898               | -2.001          |                 | -1.551          |                       |
| 223 | 1       | 0.6788           | -0.2681             | 0.99                    | 0.4394          | 0.4319               | -0.8706         | 1.2             | 1.349           | -0.76                 |
| 224 | 1       | 1.299            | 0.2819              | 0.68                    | 0.8294          | -0.6481              | -0.1806         | 1.04            | 1.599           | -0.83                 |
| 225 | 1       | -2.26E-09        | -0.3769             | 0.09125                 | -0.5394         | 0.06313              | 0.3606          |                 | -1.029          | 0.9512                |
| 226 | 1       | 0.3188           | 0.8919              | 0.03                    | -0.03062        | 0.6919               | 1.279           |                 |                 |                       |
| 227 | 1       | -1.376           |                     |                         | 0.07438         | 0.1369               | -0.6856         |                 | 1.124           |                       |
| 228 | 1       | -1.732           | 0.1809              | -1.821                  | -1.482          | -1.999               |                 | -1.301          | 1.088           | 1.399                 |
| 229 | 1       | 0.3669           | 0                   | -1.202                  | 0.3375          | -0.32                | -2.003          | 0.09812         | 1.017           | 2.178                 |
| 230 | 1       | -0.7012          | 0.08188             | -1.33                   | -0.7306         | 0.2719               | 0.1894          | -6.89E-09       | 0.1794          | -0.03                 |
| 231 | 1       | -0.3212          | -1.368              | -0.26                   | -0.3206         | 0.7519               | 0.1594          | -0.08           | 0.1794          | 0.08                  |
| 232 | 1       | 0.4888           | -0.3181             | 0.02                    | 0.4494          | -0.1781              | 0.8794          | 0.95            | 0.4894          | 0                     |
| 233 | 1       | 1.519            |                     |                         |                 |                      |                 |                 |                 | -0.84                 |
| 234 | 1       | 0.2788           | -0.1981             | -2.91E-09               | 0.4694          | -0.3481              | 0.3694          | 0.42            | 0.5994          | 0.96                  |
| 235 | 1       | 0.2488           | 0.1819              | 0.43                    | -0.000625       | -0.6781              | 0.6194          | -5.59E-09       | 0.7294          | 1.09                  |
| 236 | 1       | -2.26E-09        | -0.6869             | 0.2012                  | -0.1194         | 0.01313              | -0.3094         |                 |                 | 0.5512                |
| 237 | 1       | -2.26E-09        | -0.1969             | -0.4088                 |                 | 1.183                | 0.5006          | 1.441           | 1.161           | 0.2412                |
| 238 | 1       | -2.26E-09        | 2.363               | -0.8288                 | -0.02938        | -0.3669              | 0.2506          |                 | -0.5594         | -1.259                |
| 239 | 1       | 1.119            |                     | 0.67                    | -1.031          | 0.1619               | -0.8906         |                 |                 | 1.32                  |
| 240 | 1       | -0.4312          | -1.038              | -0.88                   | 0.7594          | 0.3019               | -1.321          | 0.66            | 0.4594          | 0.11                  |
| 241 | 1       | -0.4712          | -1.138              | -1.06                   | 0.6994          | 0.7019               | -1.251          | 0.87            | 0.5794          | 0                     |
| 242 | 1       | 0.01687          | -0.24               | 0.4681                  | 1.347           | -2.79E-10            | -1.423          | 1.568           | 0.6175          | 0.8081                |
| 243 | 1       | 1.439            | 0.2619              | 0.02                    | 0.01938         | -1.178               | -2.001          | 0.73            | -0.2606         | 0                     |
| 244 | 1       | 1.159            | 0.1719              | 0.84                    | 0.5694          | -0.2681              | -1.051          | 0.87            | 0.6494          | -1.95                 |
| 245 | 1       | 1.044            | 0.7675              | 0.8556                  | 1.715           | 1.588                | -0.045          | 0.04562         | 1.185           | -0.5644               |
| 246 | 1       | -0.003125        | 0                   | -0.6819                 | 0.3975          | -0.34                | -0.3725         | 1.088           | 1.247           | 0.5781                |
| 247 | 1       | 0.3787           | -0.6081             | 0.27                    | 0.09937         | -0.02813             | -0.2206         | 0.76            | 0.1594          | 0.89                  |
| 248 | 1       | -0.2612          | 1.712               | 0.7                     | -0.9206         | -0.3681              | 1.829           | 2.79            |                 | -0.26                 |
| 249 | 1       | 2.081            | 1.324               | 0.9425                  | 1.482           | -0.3256              | -0.01813        |                 |                 | 1.692                 |
| 250 | 1       | 0.1288           | 2.042               | 0.83                    | 0.3494          | -0.4381              |                 |                 |                 | -0.02                 |
| 251 | 1       | 0.3788           |                     | 0.09                    | 0.4894          | -0.6081              | -0.6406         |                 | 2.339           | -0.55                 |
| 252 | 1       | 0.2288           | -0.7581             | 0.81                    | -0.000625       | -0.5981              | -1.051          | 1.86            | 4.029           | -0.61                 |
| 253 | 1       | -0.9562          | -2.433              | -1.075                  | -0.4456         | 0.3869               | -0.8756         | 2.085           | 0.9644          | 0.345                 |
| 254 | 1       | -1.546           | -2.143              | 0.105                   | -0.3256         | 0.9969               | 1.304           | 0.915           | 0.4844          | -1.415                |
| 255 | 1       | -0.02062         |                     | -1.079                  | 0.38            |                      | 0.99            |                 | -0.07           |                       |
| 256 | 1       | 0.8028           | 0.2359              | 0.2141                  |                 | 0.03594              | -0.5966         |                 |                 | -1.976                |
| 257 | 1       | -2.26E-09        |                     | -0.8388                 | -0.6794         |                      | 0.1406          |                 | 5.511           | 0.4612                |
| 258 | 1       | 0.2991           | -0.1578             | 0.2703                  | -0.5303         |                      | -0.7903         |                 | 3.18            | -0.3197               |

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC-INFA<br>ARRY4X | HMEC-C, CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|--------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 259 | 1       | 2.439            | 2.072               | 1.49                     | -0.2106         | -0.8681              | -0.4706         | -0.46           | 6.569           | -0.66                 |
| 260 | 1       | 2.209            | 1.742               |                          | -0.09062        | -0.6381              | -0.1506         | 0               | 3.809           | -0.25                 |
| 261 | 1       | 0.32             | 2.173               | 1.351                    | 0.7406          |                      | 0.000625        | -2.019          | 2.031           | -0.9687               |
| 262 | 1       | -2.26E-09        | 0.1031              | 0.4212                   | 1.181           | -1.437               | 0.4806          |                 | 1.511           |                       |
| 263 | 1       | 1.037            | 0.05                | 0.6681                   | 0.6775          | -2.79E-10            | 0.0175          | 0.2081          | -0.3725         | 0.7981                |
| 264 | 1       | 0.5088           | 0.2919              | 0.38                     | 0.4894          | -0.4481              | 0.4894          |                 | 0               | 0                     |
| 265 | 1       | 0.3694           | -0.7975             | -0.2894                  | 0.64            | 0.4825               | -0.05           | -3.119          | 1.17            | 1.811                 |
| 266 | 1       | 1.15             | 0.8831              | 1.541                    | 1.061           | -0.6369              | 2.101           | -2.999          | 0.000625        | -2.079                |
| 267 | 1       | -0.2231          | -1.8                | 0.7081                   | -0.1325         | -2.79E-10            | 0.7475          |                 | -1.233          | -0.4219               |
| 268 | 1       | 0.3488           | 0.2319              | 0.38                     | -0.7906         | -0.4181              |                 | -0.76           | -0.5506         | -0.06                 |
| 269 | 1       | 2.169            | 1.572               | 1.91                     | 1.639           | 0.5119               | -0.9206         | -3.55           | -3.431          | -1.55                 |
| 270 | 1       | 2.347            | 1.9                 | 1.528                    | 1.697           | -2.79E-10            | -0.9025         | 0.4081          | -1.163          | 0.3381                |
| 271 | 1       | 3.869            | 3.382               | 3.45                     | 0.4994          | 0.1119               | -1.951          |                 | -2.461          | -1.26                 |
| 272 | 1       | 3.11             | 3.053               | 2.811                    | 0.3806          | 0.01313              | 0.000625        | -1.049          | -1.349          | -0.5887               |
| 273 | 1       | 2.309            | 1.522               | 3.21                     | 0.04937         | 0.9519               | 2.249           |                 | -1.851          | -0.49                 |
| 274 | 1       | 2.095            | 0.6281              | 1.276                    | 1.906           | 0.2581               | 1.386           |                 | -2.854          | 1.996                 |
| 275 | 1       | 2.11             | 1.193               | 1.571                    | 2.651           | 1.323                | 1.621           | -0.3688         | 0.000625        | -0.3187               |
| 276 | 1       | 1.729            | 1.442               | 1.81                     | 2.129           | 0.8619               | 2.059           | -1.65           | -0.8506         | 0                     |
| 277 | 1       | 0.01125          | 2.264               | 1.952                    | 2.182           | 2.064                | 2.732           | 2.582           | 2.022           | -0.7775               |
| 278 | 1       | 2.439            | 2.572               | 3.33                     | 3.339           | 1.652                | 3.119           | 1.96            | 1.259           |                       |
| 279 | 1       | 1.084            | 1.427               | 2.295                    | 0.9044          | 2.867                | 2.214           | -0.335          | -0.4656         | -0.065                |
| 280 | 1       | 1.981            | 1.034               | 1.772                    | 2.342           | 2.824                | 1.932           | 2.222           | 2.202           | -0.2775               |
| 281 | 1       | 2.737            | 0                   | 1.448                    | 0.9575          | 1.14                 | 3.737           |                 |                 | -0.03188              |
| 282 | 1       | 0.4238           | 0.3369              | 0.575                    | 2.254           | 2.827                | 2.954           |                 | 1.964           | -0.445                |
| 283 | 1       | -0.1131          | 0                   | 0.4581                   | 2.417           | 2.51                 | 2.147           | 2.278           | 2.927           | -0.7519               |
| 284 | 1       | 1.79             | 1.863               | 2.051                    | 1.371           | 1.293                | 0.2806          | 1.811           | -0.2794         |                       |
| 285 | 1       | 1.429            | 1.052               | 1.2                      | 0.8194          | 0.7919               | 0.2094          | -0.39           | -0.4206         | -0.32                 |
| 286 | 1       | 3.384            | 2.607               | 2.215                    | 3.204           | -1.023               | -1.186          | 2.475           | 1.444           | -0.585                |
| 287 | 1       | 3.598            | 2.581               | 2.659                    | 3.378           | -0.1091              | -0.7516         | 2.509           | 1.338           | 0.1091                |
| 288 | 1       | 0.1106           | 0.3037              | 1.232                    | 0.8112          | 1.544                | 2.201           |                 | -0.01875        | 0.5919                |
| 289 | 1       | 1.839            | 0.7819              | 0.39                     | 0.9894          |                      | -0.07063        |                 | -1.041          |                       |
| 290 | 1       | 1.287            | 0                   | 0.4481                   | 1.467           | -0.79                | 0.7575          |                 |                 |                       |
| 291 | 1       | 0.8828           | 0.2759              | 3.174                    | 1.353           | -1.434               | 2.183           |                 |                 | 1.174                 |
| 292 | 1       | 0.1044           |                     | 1.106                    | 2.065           | 1.848                |                 |                 | 0.695           | -1.054                |
| 293 | 1       | 1.004            | 0.2469              | 1.235                    | 1.304           | 0.4069               | 1.354           |                 | -0.3956         | -0.085                |
| 294 | 1       | 0.4988           | 0.4619              | 0.74                     | 1.209           | 1.382                | 1.409           | 0               | -0.07062        | 1.01                  |
| 295 | 1       | 0.4488           | -0.8681             | 0.33                     | -0.000625       |                      | 0.7294          | 1.43            | 0.9594          | -0.08                 |



|     | GWEIGHT | HMEC-C    | HMEC+INFA | HMEC-C CONFL2 | 184AA     | 184A1-LATE | 184B5    | HMVEC    | HUVEC    | MDA-MB-321 |
|-----|---------|-----------|-----------|---------------|-----------|------------|----------|----------|----------|------------|
|     |         | ARRY2X    | ARRY4X    | ARRY3X        | ARRY5X    | ARRY1X     | ARRY0X   | ARRY7X   | ARRY6X   | ARRY11X    |
| 296 | 1       | 0.5469    | -0.01     | 0.7081        | -0.0825   | -2.79E-10  | 0.9875   | 1.428    | 0.7675   | 1.108      |
| 297 | 1       | 1.469     | 0.6419    | 1.24          | 0.06938   | 0.4019     | -0.2606  |          |          | 1.37       |
| 298 | 1       | 1.234     | 0.8675    | 1.366         | 0.725     | -0.4625    | 0.275    | 1.506    | 1.025    | 1.186      |
| 299 | 1       | 1.854     | 2.427     | 1.075         | 0.2144    | -0.6931    | 0.2344   | 3.775    | 1.384    | 0.345      |
| 300 | 1       | 0.5388    | 0.1419    | 0.22          | 1.409     | -1.108     | -0.2506  |          | -1.501   | -2.72      |
| 301 | 1       | 1.084     | 0.5869    | 0.455         | 1.644     | 0.4569     | 0.7344   |          | -7.016   | -0.455     |
| 302 | 1       | -2.26E-09 | 0.8531    | 2.201         | 1.851     | 1.473      | 0.8806   |          |          |            |
| 303 | 1       | 2.064     | 1.607     | 3.235         | 4.834     |            |          | 2.055    | 0.7644   | 1.775      |
| 304 | 1       | 0.8488    | 0.5019    | 0.95          | 0.5594    | 0.4119     | -0.7306  | 0        | -0.4106  | 0.92       |
| 305 | 1       | 0.7828    | 0.4059    | 0.8241        | 0.6134    | 0.03594    | -0.7466  | -0.03594 | -0.4466  | 0.6741     |
| 306 | 1       | 1.269     | 0.6519    | 0.88          | 1.749     | -0.5781    | 1.159    | 1.56     | 0.7394   | 0          |
| 307 | 1       | 0.7288    | 0.5519    | 0.31          | 1.479     | 0.2819     | 0.06938  | -0.96    | -2.531   | 0.71       |
| 308 | 1       | 1.419     | 0.3619    | 1.67          | 1.569     | 1.572      | 1.979    | -0.67    | -0.7906  | 0          |
| 309 | 1       | 0.98      | 0.5931    | 1.311         | 1.651     | 2.143      | 1.591    | 1.061    | 0.000625 | 1.311      |
| 310 | 1       | 0.07781   | -0.009062 | 0.3891        | 2.048     | 2.361      | 2.218    | 0.009062 | 0.03844  | 0.4391     |
| 311 | 1       | 0.5988    | 0.001875  | 0.24          | 1.619     | 1.762      | 1.339    | 0.42     | 0.9194   | 0.39       |
| 312 | 1       | 0.1688    | 0.1619    | 0.25          | 0.8094    | 1.662      | 1.139    | 0.55     | 0.2794   | 0.47       |
| 313 | 1       | 0.5088    | 0.03188   | 0.34          | 1.759     | 1.642      | 1.399    | 1.77     | 0.5694   | 0.71       |
| 314 | 1       | -2.26E-09 | 0.3131    | 0.06125       | 0.4306    | 1.593      | 1.031    | 0.1812   | 0.1606   | 0.3312     |
| 315 | 1       | 0.06      | 0.4831    | 0.2812        | 1.141     | 2.163      | 1.141    | 0.5012   | 0.000625 | 0.4512     |
| 316 | 1       | 1.614     | 0.7872    | 1.045         | 1.285     | -0.3928    | 1.325    | 1.095    | 0.4647   | -0.5947    |
| 317 | 1       | 0.7788    | 0.1719    | -0.46         | -0.000625 | -1.748     | -1.441   | 0.42     | 0.4194   | 2.53       |
| 318 | 1       | 0.6888    | 0.2819    | -0.14         | 0.1394    | -1.418     |          | 0.56     | 0.7394   | 2.2        |
| 319 | 1       | 0.85      | 0.7931    | 0.6512        | 0.4206    | -1.917     | 0.000625 | 0.4612   | 0.9606   | 1.661      |
| 320 | 1       | 3.118     | 3.121     | 3.479         | 2.568     | 0.09094    | -1.842   | 0.3191   |          | 2.079      |
| 321 | 1       | 1.049     | 0.4019    | 1.4           | 0.4394    | -0.3881    | 0.1594   | 0.78     | 0.2894   | 0          |
| 322 | 1       | 0.6788    | 0.7819    | 0.89          | 2.679     | 0.9819     | 1.929    | 1.01     | 0.6894   | -0.87      |
| 323 | 1       | 0.8088    | 0.8519    | 1.17          | 1.889     | 0.6619     | 1.589    | 0.49     | 0.4994   | -1.19      |
| 324 | 1       | 0.8769    | 0         | 1.218         | 2.007     | 2.68       | 1.927    | 0.1281   | 0.4075   | -0.6819    |
| 325 | 1       | 0.9369    | 0         | 1.468         | 2.007     | 1.48       | 1.747    | 0.02812  | 0.5575   | -0.3519    |
| 326 | 1       | 1.214     | 0.6169    | 1.225         | 2.044     | 2.187      | 2.054    |          | 0.3744   | 0.025      |
| 327 | 1       | 4.019     | 2.392     | 3.67          | 2.909     | 1.162      | 1.369    | 1.28     | 0.8094   | -0.02      |
| 328 | 1       | 3.629     | 2.333     | 3.361         | 1.61      | 0.5825     | 1.12     | 0.8206   | 0.32     | -0.3394    |
| 329 | 1       | 4.159     | 2.412     | 3.57          | 2.779     | 0.9219     | 1.339    | 1.5      | 0.7894   | 0          |
| 330 | 1       | 4.109     | 2.762     | 3.66          | 2.939     | 1.082      | 1.349    | 1.29     | 0.7694   | 0          |
| 331 | 1       | 0.8028    | 0.2259    | 0.7041        | 0.3734    |            | -0.9166  |          | 0.3534   | 1.374      |
| 332 | 1       | 2.364     |           | -0.465        | 1.314     | 1.447      |          |          |          | 0.885      |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 333 | 1       | 0.5188           | -0.8281             | -0.41                   | 0.5694          | 0.06188              | 0.9694          | 1.08            | 0.6794          | 0.75                  |
| 334 | 1       | 1.409            | 0.3119              | 1.47                    | 0.1994          | 0.6919               | 0.9994          | 0.23            | -0.7506         | -0.09                 |
| 335 | 1       | 1.653            | 0.7259              | 1.514                   | 1.903           | 0.2559               | 1.763           | 1.734           | 0.6934          | -1.826                |
| 336 | 1       | 0.9669           | 0.57                | 1.768                   | 0.6975          | -2.79E-10            | 1.697           | 1.688           | 1.257           | -4.352                |
| 337 | 1       | 0.2588           | 0.3519              | 1.19                    | 1.259           | 0.7219               | 0.5394          |                 |                 | -1.87                 |
| 338 | 1       | 0.6128           | -0.4841             | 0.4841                  | 1.663           | 0.5259               | 0.7234          | 1.644           | 1.163           | -1.196                |
| 339 | 1       | -0.2106          | -0.5075             | -0.2894                 | 0.97            | 1.823                | 1.5             | 1.241           | 2.01            | 0.2106                |
| 340 | 1       | 0.7528           | -0.5541             | 0.1041                  | 0.3234          | -0.1041              | -0.1766         | 1.444           | 2.193           | 0.2641                |
| 341 | 1       | 0.73             | 0.2031              | 0.5512                  | 1.481           | 0.7931               | 1.441           | 1.051           | 0.000625        | 1.141                 |
| 342 | 1       | 1.049            | -0.9081             | -2.91E-09               | 1.059           | 1.222                | 1.019           | 1.81            | 1.349           | 0.61                  |
| 343 | 1       | 0.5812           | -0.07562            | 0.8625                  | 0.8719          | 0.2744               | 1.042           | 0.5925          | 0.3619          | 0.3025                |
| 344 | 1       | 0.6712           | -0.3956             | 0.7525                  | 0.8419          | 0.02438              | 0.9719          | 0.8425          | 0.6319          | 0.3025                |
| 345 | 1       | 0.4469           | 0                   | 0.8981                  | 2.147           | 1.11                 | 1.407           | 0.8781          | -1.363          | -7.302                |
| 346 | 1       | 0.6869           | 0                   | 1.358                   | 2.167           | 1.35                 | 1.787           | 1.158           | -1.063          |                       |
| 347 | 1       | 0.83             | 0.4331              | 0.9812                  | 1.751           | 0.2431               | 1.011           | 1.161           | 0.000625        | -4.399                |
| 348 | 1       | 1.438            | 0.5816              | 1.53                    | 0.5391          | 0.1816               | -0.1809         | 1.79            | 2.989           | -1.19                 |
| 349 | 1       | 1.399            | 0.3725              | 1.201                   | 0.37            | 0.1925               | -0.07           | 1.301           | 2.66            | -1.499                |
| 350 | 1       | 0.9494           | 0.7025              | 0.8506                  | 1.17            | -0.0175              | -1.31E-09       | 0.8106          | 1.51            | 0.2906                |
| 351 | 1       | 0.9769           | 1.42                | 1.158                   | 1.427           | -2.79E-10            | 0.7175          | 2.378           | 2.047           | 1.778                 |
| 352 | 1       | 0.09844          | -0.5784             | -0.7303                 | 1.029           | -0.09844             | 0.5291          | 0.5597          | 0.3891          | -0.8703               |
| 353 | 1       | 0.16             | 0.8531              | 0.4712                  | 1.201           | -0.2169              | 0.000625        | 0.8412          | -0.8394         | 0.6913                |
| 354 | 1       | 1.499            | 0.2519              | 1.34                    | 1.869           | 4.162                | 4.419           | 0               | -1.371          | -2.88                 |
| 355 | 1       | 1.659            | 0.8519              | 1.4                     | 1.519           | -0.4881              | 1.339           | 0               | 0.3194          | -0.88                 |
| 356 | 1       | 1.518            | 0.02094             | 0.2891                  | 0.6584          | 0.1209               | 0.1184          | -0.08094        | 0.4784          | -0.8909               |
| 357 | 1       | 1.323            | 0.04594             | 0.2641                  | 0.6034          | -0.1841              |                 | 0.1041          | 0.8834          | -0.7759               |
| 358 | 1       | 0.01438          | -0.7025             | -0.3044                 | -0.015          | -0.0375              | 1.075           | 2.166           | -2.345          | 0.3756                |
| 359 | 1       | -2.26E-09        | -0.6969             | -0.3688                 | 0.1406          | 0.1431               | 1.011           | 1.891           | 1.891           | 0.1312                |
| 360 | 1       | 1.769            | 0.4425              | 0.8006                  | -0.47           | -1.087               | 0.31            | 1.121           | 1.36            | -0.5794               |
| 361 | 1       | 2.147            | 1.48                | 0.4481                  | 1.587           | -2.79E-10            | -0.5725         | 0.7481          | -0.5525         | 1.268                 |
| 362 | 1       | 1.987            | 0                   | 1.428                   | 1.797           | -0.79                | -0.6825         | 1.138           | 0.6675          | 0.6781                |
| 363 | 1       | 0.2188           | 0.01188             | 0.66                    | 1.619           | 0.4519               | 2.589           | 1.87            | 2.389           | -1.27                 |
| 364 | 1       | 0.1488           |                     | 1.47                    | 1.829           | 1.952                | 3.219           | 2.14            | 2.509           | -2.02                 |
| 365 | 1       | 1.109            | 1.072               | 2.05                    | 1.119           | 0.1719               | 1.909           | 3.71            | 4.319           | -0.66                 |
| 366 | 1       | 0.9288           | 1.022               | 1.25                    | 1.549           | 2.582                | 2.059           | 2.43            | 3.369           | 0                     |
| 367 | 1       | 0.3769           | 0                   | 1.758                   | 1.487           | 1.3                  | 2.167           | -0.5319         | -0.0525         | 0.03812               |
| 368 | 1       | 0.4488           | -0.3881             | -2.91E-09               | 0.5394          | 0.5719               | 0.1594          | -0.3            | 0.2594          | 1.69                  |
| 369 | 1       | 3.869            | 2.142               | 3.3                     | 3.779           | 0.7319               | 2.239           |                 | 2.009           | -2.45                 |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C. CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 370 | 1       | 3.819            | -2.132              | 3                       | 3.629           | 0.2219               | 1.579           |                 | 1.599           |                       |
| 371 | 1       | 0.1269           | -0.23               | -0.04188                | 0.0175          | -2.79E-10            | 0.0975          | 1.468           | 1.407           | 0.6681                |
| 372 | 1       | -0.08625         | -0.3431             | 0.075                   | 1.424           | 1.637                | 0.3644          | 1.695           | 1.724           | 1.905                 |
| 373 | 1       | -0.5772          | -0.2841             | -0.9959                 | 0.8534          | 0.04594              | 1.423           | 3.184           | 3.383           | 0.4541                |
| 374 | 1       | 2.264            | 1.967               | 1.885                   | 3.004           | 0.8669               | 1.344           | 3.905           | 2.454           | -0.035                |
| 375 | 1       | 2.179            | 1.422               | 1.68                    | 0.9994          | -0.2081              | -0.2806         | 1.88            | 3.419           | 1                     |
| 376 | 1       | 1.38             | 1.433               | 2.131                   | 3.011           |                      | 1.621           |                 | 0.00625         | 0.3113                |
| 377 | 1       | 1.529            | 2.582               | 2.14                    | 0.2094          | -2.138               | -0.9006         | 2.43            | 0.9394          | 2.4                   |
| 378 | 1       | 2.389            | 1.932               | 1.78                    | 2.069           | -2.428               | -3.171          | 0.54            | 1.149           | 1.44                  |
| 379 | 1       | 2.699            | 2.432               | 1.94                    | 0.5594          | -1.608               | -1.581          |                 | 0.8794          | 0.64                  |
| 380 | 1       | 2.109            | 1.262               | 1.28                    | 1.889           | -0.01812             | -0.2606         | 3.04            | 2.439           | 0.16                  |
| 381 | 1       | 0.7328           | 0.1059              | -0.1059                 | 1.153           | -1.294               | 0.1634          | 1.494           | 1.863           | 0.2841                |
| 382 | 1       | 1.389            | 0.6019              | 1.4                     | 1.239           | 1.622                | 1.099           | 0.67            | 0.09938         | -0.9                  |
| 383 | 1       | 0.8988           | 0.3419              | 0.32                    | 1.009           | 0.7919               | 1.619           | -0.85           | -1.431          | 1.32                  |
| 384 | 1       | 0.98             | 0.6631              | 1.151                   | 1.891           | 0.04313              | 0.00625         | 1.591           | 1.451           | -0.1287               |
| 385 | 1       | 1.28             | 1.183               | 1.591                   | 1.971           | -0.1069              | 0.00625         | 2.361           | 1.701           | 0.1413                |
| 386 | 1       | 2.101            | 1.204               | 1.942                   | 3.262           | 2.214                | 1.882           |                 | 3.652           | -1.688                |
| 387 | 1       | 0.2012           | 1.884               | 1.832                   | 1.482           | 0.9044               | 2.012           | 0.8425          | 0.02187         | -2.698                |
| 388 | 1       | 0.5788           | 0.5619              | 1.35                    | 1.679           | 1.522                | 0.5194          |                 | -3.161          | -4.45                 |
| 389 | 1       | 1.204            | 1.547               | 0.995                   | 1.534           | 0.6269               | 0.8344          | 1.875           | -0.2856         | -2.375                |
| 390 | 1       | 1.177            | 0                   | 0.2581                  | 0.6975          | -6.25E-17            | 0.0575          |                 | 1.957           | -0.4519               |
| 391 | 1       | 0.4688           | -0.3481             | 0.64                    | 0.8994          | 0.2519               | 0.4994          | 0.52            | 1.219           | 1.15                  |
| 392 | 1       | -0.4466          | -0.3334             | -0.3953                 | 0.8341          | 0.6766               | 0.4941          | -0.8053         | 0.3341          | 2.245                 |
| 393 | 1       | 0.3569           | -2.79E-10           | -0.2719                 | 1.047           | -2.79E-10            | -0.4825         | 1.788           | 0.6475          | 1.048                 |
| 394 | 1       | 0.1588           | -0.6681             | -0.19                   | 0.5194          | -0.3481              | -1.021          | 1.55            | 1.499           | -0.04                 |
| 395 | 1       | 0.3688           | -0.7981             | -0.43                   | 0.1794          | -0.4181              | 0.5194          | 0               | 0.06938         | 0.12                  |
| 396 | 1       | 0.9169           | 0.49                | 0.1381                  | -0.0425         | -2.79E-10            | 0.5175          |                 |                 | 0.8881                |
| 397 | 1       | -2.26E-09        | -0.4069             | -0.03875                | 0.7706          | 1.803                | 0.6106          | 0.7512          | 0.8506          | 1.161                 |
| 398 | 1       | 1.239            | 0.3719              | 0.86                    | 1.039           | 0.6019               | 1.349           |                 | -0.5106         | 0.26                  |
| 399 | 1       | 0.1088           | -0.1281             | 0.18                    | 0.5194          | 1.102                | 0.7094          | -0.55           | -1.271          | 0                     |
| 400 | 1       | 1.829            | 1.672               | 1.62                    | 2.359           |                      |                 | -1.49           | -1.481          |                       |
| 401 | 1       | 3.468            | 3.581               | 2.869                   | 2.418           | 0.1209               | 2.668           |                 |                 |                       |
| 402 | 1       | 4.261            | 4.624               | 3.352                   | 2.952           | 1.304                | 3.412           |                 | -3.488          | -1.078                |
| 403 | 1       | 1.799            | 0.8919              | 2.2                     | 1.779           | 1.772                | 1.919           |                 |                 | 0                     |
| 404 | 1       | 1.941            | 1.154               | 2.222                   | 1.902           | 1.444                | 2.402           |                 | -2.118          | -3.388                |
| 405 | 1       | 1.699            | 2.732               | 3.04                    | 0.8994          |                      | 1.389           | 0.49            | -0.6206         |                       |
| 406 | 1       | 2.689            | 1.362               | 1.91                    | 3.569           |                      | 1.599           | -2.7            | -3.721          | 0.23                  |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONF L2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|--------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 407 | 1       | 2.719            | 1.032               | 0.85                     | 1.499           | 0.6819               | -0.1206         | -0.74           | -1.471          | 0.23                  |
| 408 | 1       | 1.729            | 1.012               | 2.72                     | 3.309           | 1.522                | 3.349           | -0.62           | -0.7906         | -1.22                 |
| 409 | 1       | 1.114            | 1.257               | 1.855                    | 2.504           | 2.627                | 3.134           | -0.545          | 0.9444          | -0.695                |
| 410 | 1       | 1.079            | 1.062               | 1.73                     | 1.129           | 0.2919               | 1.329           |                 | 0.3694          | -0.64                 |
| 411 | 1       | 1.48             | 2.043               | 3.461                    | 3.241           | 5.383                | 4.801           | 2.581           | 0.000625        | -2.119                |
| 412 | 1       | 2.289            | 1.572               | 2.39                     | 2.599           | 1.892                | 2.249           | -0.21           | -1.701          | -2.38                 |
| 413 | 1       | 2.175            | 1.598               | 2.956                    | 3.186           | 2.798                | 3.366           |                 |                 | -3.244                |
| 414 | 1       | 2.279            | 1.023               | 2.811                    | 2.26            | -0.3975              | 1.84            |                 | -0.01           | -1.089                |
| 415 | 1       | 2.284            |                     | 4.345                    | 1.794           | 3.817                | 4.414           |                 |                 | -2.695                |
| 416 | 1       | 2.749            | 3.152               | 3.33                     | 2.439           | 1.032                | 2.009           | 2.77            | -0.01062        | -0.51                 |
| 417 | 1       | 2.829            | 2.002               | 2.98                     | 1.909           | 0.5719               | 1.479           | -0.79           | -0.7806         | 1.77                  |
| 418 | 1       | 1.599            | 1.042               | 1.64                     | 1.819           | 1.412                | 1.939           |                 | -0.8306         | 1.58                  |
| 419 | 1       | 2.954            | 2.687               | 1.915                    | 1.784           | 2.237                | 2.544           | -2.125          | -2.136          | 0.095                 |
| 420 | 1       | 3.059            | 1.952               | 1.65                     | 4.339           | 1.252                | 5.919           | 0.02            | -0.3806         | -0.98                 |
| 421 | 1       | 2.7              | 2.183               | 2.501                    | 3.461           | 2.293                | 2.671           | 1.041           | 0.000625        | -0.1388               |
| 422 | 1       | 2.969            | 3.762               | 3.7                      | 3.489           | 3.882                | 3.189           |                 | -0.4506         | -1.11                 |
| 423 | 1       | 3.249            |                     | 3.45                     | 4.019           | 3.322                | 4.849           |                 | -2.071          | -1.43                 |
| 424 | 1       | 4.349            | 3.932               | 4.33                     | 4.669           | 1.982                | 2.079           | 0               | 0.1294          | 0.29                  |
| 425 | 1       | 6.374            | 7.007               | 7.615                    | 7.604           | 4.627                | 5.134           | -0.175          | 0.2244          | 0.175                 |
| 426 | 1       | 4.281            | 3.964               | 5.342                    | 6.762           | 6.164                | 6.492           |                 |                 | 1.442                 |
| 427 | 1       | 4.339            | 4.412               | 5.29                     | 5.539           | 6.812                | 6.309           |                 | -1.781          | -0.21                 |
| 428 | 1       | 6.744            | 7.177               | 8.015                    |                 | 7.437                | 8.244           | -1.695          | -3.746          | -1.695                |
| 429 | 1       | 5.899            | 5.992               | 6.95                     |                 |                      | 7.929           |                 |                 |                       |
| 430 | 1       | 5.38             | 5.683               | 6.561                    | 6.291           | 6.433                | 7.181           |                 | -0.4494         | -0.4188               |
| 431 | 1       | 3.6              | 4.283               | 3.831                    | 3.911           | 4.163                | 4.851           | -1.849          | -1.489          |                       |
| 432 | 1       | 4.051            | 3.884               | 4.342                    | 4.352           | 4.374                | 5.032           | -1.678          | -0.7481         | -1.868                |
| 433 | 1       | 4.204            | 4.257               | 5.305                    | 5.824           | 2.177                | 5.434           | -2.225          | -0.7656         | -0.195                |
| 434 | 1       | 3.189            | 4.402               | 3.44                     | 5.149           | 5.882                | 5.519           | -1.17           | -0.6906         | 1.47                  |
| 435 | 1       | 4.299            | 4.252               | 4.87                     | 5.449           | 3.172                | 4.499           | 0.29            | -0.7306         | -0.29                 |
| 436 | 1       | 5.264            | 4.827               | 5.815                    | 5.554           | 3.977                | 4.614           | 0.345           | -0.7856         | -0.595                |
| 437 | 1       | 4.684            | 4.307               | 4.565                    | 5.594           | 3.997                | 4.804           | -0.135          | -0.9656         | -1.015                |
| 438 | 1       | 6.069            | 5.962               | 6.68                     | 6.499           | 3.382                | 4.639           | -0.07           | -0.3906         | 0.83                  |
| 439 | 1       | 5.121            | 4.994               | 5.522                    | 5.492           | 4.234                | 5.482           | -0.3875         | 0.09187         | -0.0375               |
| 440 | 1       | 3.201            | 2.444               | 2.862                    | 3.702           | 3.264                | 3.572           |                 |                 |                       |
| 441 | 1       | 3.379            | 2.352               |                          | 2.239           | 2.492                | 3.509           |                 | -0.3106         |                       |
| 442 | 1       | 3.171            | 4.404               | 3.972                    | 1.882           | -1.256               | 1.972           | 0.7025          | 0.1719          | -1.048                |
| 443 | 1       | 3.134            |                     | 3.235                    | 2.744           | -1.163               | 1.914           |                 |                 | 0.895                 |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 444 | 1       | 1.599            | 1.272               | 1.83                    | 2.249           | 0.8119               | 2.029           | 0.61            | 0.4394          | -1.64                 |
| 445 | 1       | 2.899            | 2.192               | 2.78                    | 2.799           | 1.562                | 1.559           | 0.88            | 0.1694          | -2.18                 |
| 446 | 1       | 0.9887           | 1.372               | 3.19                    | 3.979           | 3.702                | 5.479           |                 | -1.261          | -0.36                 |
| 447 | 1       | 2.931            | 2.184               | 2.382                   | 2.352           | 2.164                | 2.122           | -1.248          | -0.4081         |                       |
| 448 | 1       | 3.469            | 3.272               | 3.76                    | 3.789           | 1.302                | 1.659           | 0.47            | -0.1106         | 2.1                   |
| 449 | 1       | 2.749            | 2.732               | 3.2                     | 2.919           | 0.9419               | 1.289           | 0.06            | -0.3406         | 1.6                   |
| 450 | 1       | 3.189            | 3.512               | 5.39                    | 4.689           | 3.422                |                 | -1.28           | -1.711          | 5.07                  |
| 451 | 1       | 2.151            | 0.9544              | 1.332                   | 2.232           | 2.644                | 4.042           | -0.3775         | -0.2981         | -1.098                |
| 452 | 1       | 2.88             |                     | 1.781                   | 2.371           | 2.953                | 4.781           | -0.2088         | -0.2194         | 0.3513                |
| 453 | 1       | 3.939            | 3.222               | 5.81                    | 4.539           | 4.322                | 4.989           | 0.28            | -2.601          | -1.14                 |
| 454 | 1       | 2.544            | 1.827               | 3.425                   | 1.494           |                      |                 |                 |                 |                       |
| 455 | 1       | 3.149            | 3.822               | 3.14                    | 1.719           | -0.2181              | 2.099           |                 |                 | -0.86                 |
| 456 | 1       | 2.334            | 2.608               | 4.116                   | 1.505           | 1.428                | -0.175          | -1.404          | -0.225          | -2.464                |
| 457 | 1       | 3.359            | 3.422               | 3.46                    | 2.379           | -0.2581              | -0.8306         | 0.7             | -0.03062        | 2.22                  |
| 458 | 1       | 4.005            |                     | 3.716                   | 3.976           | 0.7181               | 0.3556          | 0.1662          | -1.134          |                       |
| 459 | 1       | 3.96             | 3.133               | 3.081                   | 4.451           | -0.1869              | 0.8106          | 0.2912          | 0.000625        | -0.6788               |
| 460 | 1       | 2.759            | 2.082               | 3.19                    | 2.299           | 2.382                | 2.929           | 0               | -1.381          | -0.24                 |
| 461 | 1       | 2.379            | 1.562               | 2.17                    | 2.629           | 1.392                | 2.199           |                 |                 | -0.19                 |
| 462 | 1       | 3.739            | 1.812               | 2.64                    | 1.689           | 0.1419               | -1.031          |                 | -4.591          | 0.93                  |
| 463 | 1       | 1.699            | 1.432               | 2.06                    | 1.859           | 0.1219               | 1.759           | 0.94            | 0.7394          | -0.44                 |
| 464 | 1       | 2.449            | 1.662               | 2.39                    | 2.749           | 1.292                | 1.589           | 0               | 0.03938         | -1.12                 |
| 465 | 1       | 1.569            | 2.132               | 2.28                    | 0.1294          | -0.06812             | 2.129           | 0.67            | -1.801          | -0.6                  |
| 466 | 1       | 1.509            |                     | 1.49                    | 1.309           |                      | 2.689           |                 |                 |                       |
| 467 | 1       | 1.759            | 1.502               | 1.58                    | 1.329           | 0.1419               | 0.6894          | 2.21            | 1.409           | 0.59                  |
| 468 | 1       | 0.8269           | 0                   | -0.3619                 | 1.377           | 0.1                  | 0.4075          |                 | -2.093          | 0.7681                |
| 469 | 1       | 1.394            | 0.7375              | 0.9456                  | 0.005           |                      | -0.005          | -0.8444         | -1.695          | 1.656                 |
| 470 | 1       | 0.8444           | 0.8875              | 0.3856                  | 0.335           | -0.9025              | 0.215           | -0.2144         | -1.605          | 1.806                 |
| 471 | 1       | 1.894            | 1.427               | 1.095                   | 1.295           | 0.02719              | -0.1153         |                 |                 | 3.745                 |
| 472 | 1       | 2.339            | 2.602               | 2.03                    | 2.049           | -0.9481              | -0.9806         | 0               | -0.01062        | 2.32                  |
| 473 | 1       | 1.551            | 1.504               | 1.392                   | 1.272           | -1.516               | -1.798          |                 | -5.188          | 3.342                 |
| 474 | 1       | 0.6438           |                     | -0.375                  | 0.1344          | -0.5031              | -0.5656         | -0.135          | 0.4144          | 3.685                 |
| 475 | 1       | 0.03875          | 1.372               | 1.06                    |                 |                      |                 |                 | 0.7894          |                       |
| 476 | 1       | 0.1788           | 0.2719              | 0.85                    | 1.909           | 1.172                | 2.439           | 0               | -0.5006         | -0.21                 |
| 477 | 1       | 2.407            | 1.8                 | 1.928                   | 3.297           | -2.79E-10            | 0.4275          | 1.468           |                 | -2.232                |
| 478 | 1       | 1.741            | 1.394               | 1.432                   | 1.402           | -0.1256              | -0.06813        |                 | 0.6219          | -3.238                |
| 479 | 1       | 1.959            | 1.262               | 1.87                    | 0.6494          | 0.4719               | -0.8306         | 0.33            | 1.149           |                       |
| 480 | 1       | 1.129            | 0.5619              | 0.03                    | 1.099           | 0.7319               | 0.5994          | -0.11           | 0.03938         | 2.15                  |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 481 | 1       | 0.6812           | -0.02562            | 1.002                   | 0.8819          | 1.034                | 1.452           | -0.3375         | -0.1681         | 0.1525                |
| 482 | 1       | -2.26E-09        | 0.06313             | 0.3212                  | -0.5094         | -1.217               | -0.03938        | 1.271           | 0.6006          | 0.9212                |
| 483 | 1       | 0.5088           | -0.6281             | 0.2                     | -0.09062        | -1.688               | 0.9394          | 2.47            | 2.129           | 0.77                  |
| 484 | 1       | -0.3012          | 0.7919              | -2.91E-09               | 0.9894          | 0.6719               | 1.209           | -0.28           | -0.1406         | 1.32                  |
| 485 | 1       | -1.08            | 0.1731              | 0.4812                  | -0.4594         | -0.9469              | 0.6806          | 0.4312          | 0.000625        | 1.621                 |
| 486 | 1       | -2.26E-09        | 0.9831              | 0.3712                  | -0.8794         | -0.2669              | -0.7394         | 0.8912          | 1.171           | 2.131                 |
| 487 | 1       | 0.3              |                     | 1.291                   | 0.9506          | -0.04687             | 0.000625        | 2.201           | 0.5706          | 1.811                 |
| 488 | 1       | 1.753            | 0.07594             | 0.7941                  | 0.2634          | -0.1341              | -0.1966         | 2.114           | 2.323           | -0.2159               |
| 489 | 1       | 2.027            | 0                   | 0.6481                  | 0.2275          | -0.79                | -0.2425         | 1.898           | 2.267           | -0.1819               |
| 490 | 1       | 0.5688           | 0.4819              | 0.64                    | 0.1994          | -1.228               | -1.291          | 0.34            | 1.299           | -0.71                 |
| 491 | 1       | 1.519            | 0.1019              | 0.03                    | -0.1306         |                      | -1.941          | 0.42            | 0.7094          | 2.04                  |
| 492 | 1       | 1.899            | -0.1081             | 0.69                    | -0.000625       | -1.748               | -0.9306         |                 |                 | 2.38                  |
| 493 | 1       | 0.6588           | -0.2581             | 0.44                    | 0.8394          | -1.388               | -0.000625       | 0.58            | 0.6594          | 0.16                  |
| 494 | 1       | 0.3088           | 0.3919              | 0.37                    | 0.9494          | 0.8119               | -0.3606         | -0.85           | 0.2294          | 0.33                  |
| 495 | 1       | 1.32             | 0.3031              | 0.4112                  | 0.2706          | 0.4631               |                 | -0.03875        | 0.1006          | 2.201                 |
| 496 | 1       | 0.14             | -0.05687            | 0.5412                  | 0.2006          | 0.7731               | 1.361           |                 | 0.000625        | 2.001                 |
| 497 | 1       | 0.57             | 0.3731              | 0.9012                  | 0.3906          | 0.1831               | 1.401           | -5.459          | 0.000625        | 2.591                 |
| 498 | 1       | 0.9288           | -0.03812            | 1.08                    | 1.379           | 0.4119               | 0.5994          | 0.01            | -0.2706         | 1.41                  |
| 499 | 1       | -0.1022          | 1.141               | 1.129                   | 0.7784          | 0.0009375            | 0.6584          | -1.841          | -1.382          | 0.2791                |
| 500 | 1       | 0.9012           | 0.9944              | 1.822                   | 0.2619          | -0.1556              | 1.202           | -1.318          | -2.148          | 0.5125                |
| 501 | 1       | 0.8788           | 1.012               | 2.28                    | -0.000625       |                      | 1.139           | 0.28            | -0.6406         | 0.95                  |
| 502 | 1       | 1.007            | 0                   | 0.5181                  | 0.2075          | -3.72                | 0.3675          | -0.2519         | 1.167           | -3.512                |
| 503 | 1       | 1.509            | 0.2325              | 0.8306                  | 0.57            | -3.017               | 0.17            | -0.3194         | 1.21            | -0.1694               |
| 504 | 1       | 0.2887           | -0.5781             | 0.1                     | 0.08937         | -1.528               | -0.8306         | 0.43            | 0.4694          | -0.09                 |
| 505 | 1       | 0.5228           | 0.005938            | -0.01594                | -0.006563       | -0.9641              | -0.04656        | 0.6941          | 0.4834          |                       |
| 506 | 1       | -0.06            |                     | 0.1712                  | 0.5506          | -0.8769              | 0.08062         |                 | 0.000625        | -1.999                |
| 507 | 1       | 0.03875          | -0.5481             | 0.42                    | -0.000625       | 0.2019               | -0.9206         | 1.48            | 2.149           | -1.8                  |
| 508 | 1       | -0.3112          | 0.2419              | 0.92                    | -1.111          | -2.628               |                 | -0.08           |                 |                       |
| 509 | 1       | 0.05875          | -0.1881             | 0.11                    | -0.3306         | -1.028               | 0.6594          | 1.23            | 1.489           | -3.29                 |
| 510 | 1       | 0.9969           | 0                   | 0.1881                  | -0.6625         |                      | 0.9375          | 0.5581          | 2.167           | -1.502                |
| 511 | 1       | 0.1578           | 0.06094             | -0.4009                 | -0.06156        | -1.129               |                 |                 |                 |                       |
| 512 | 1       | 0.3369           | 0.05                | 1.058                   | 1.057           | -2.79E-10            | 2.117           | -0.9719         | 0.6575          |                       |
| 513 | 1       | 0.9938           | 0.9969              | 1.955                   | 1.744           | -0.5231              | 2.844           | 0.025           | 1.424           | -1.025                |
| 514 | 1       | 0.2988           | 0.1219              | 0.5                     | -0.4806         | 1.952                | 0.6394          | 0.46            | -0.2506         | -0.67                 |
| 515 | 1       | -0.05875         | -0.7656             | 0.5025                  | 0.9719          | 2.334                | 2.202           | 2.142           | 0.9519          | -0.5575               |
| 516 | 1       | 0.09687          | 0                   | 0.01812                 | 0.8575          | 0.52                 | 0.9475          | -0.9619         | -1.263          | -1.012                |
| 517 | 1       | 0.3387           |                     | 0.32                    | -0.7206         | 0.4819               | 0.3794          |                 | -0.4906         | -0.61                 |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 518 | 1       | 1.845            | 1.118               | 2.096                   | 1.116           | -0.5619              | 0.1456          | -0.2738         | 0.6556          | -4.044                |
| 519 | 1       | 0.6887           | -0.1381             | 1.38                    | 2.429           | 0.9819               | -0.7906         | -0.04           | -0.6406         | 0.27                  |
| 520 | 1       | 1.305            | -0.7819             | 1.026                   | 1.246           | 2.758                | 0.7856          | -1.124          | -0.7744         | -0.2737               |
| 521 | 1       | 0.1212           | -0.2756             | -0.2975                 | 1.182           | 0.07438              | -0.5081         | -0.9475         | -1.658          | -0.0475               |
| 522 | 1       | 0.7078           | 0.02094             | 0.09906                 | 0.2184          |                      | -0.7216         | -0.02094        | 0.1184          | -0.5109               |
| 523 | 1       | 0.4412           | 0.5344              | 0.7925                  | 0.4519          | 1.624                | 1.952           | -1.168          | -0.2281         | -2.898                |
| 524 | 1       | -0.8612          | 0.2119              | 0.12                    | -0.2106         |                      | 0.3194          |                 | -0.3506         | 0.68                  |
| 525 | 1       | -0.3112          | 0.04188             |                         | 0.5494          |                      | 0.1294          |                 |                 | -0.11                 |
| 526 | 1       | -0.06313         | 0                   | -0.2619                 | 0.0975          | 4.86E-17             | 0.6275          | 0.1481          | -0.1225         | 0.7681                |
| 527 | 1       | -0.2412          |                     | 0.36                    | -0.04062        |                      | 0.1294          | -0.95           | 0.4494          |                       |
| 528 | 1       | -2.26E-09        | 0.1431              | 0.4512                  | 0.9806          | -1.197               | 4.151           | 2.811           | 0.7106          | 2.101                 |
| 529 | 1       | 2.787            | 1.41                | 0.8081                  | 2.147           | -2.79E-10            | -1.093          | 1.088           | 1.207           | 1.768                 |
| 530 | 1       | 0.2688           | 0.7319              | 0.72                    | -1.151          | -0.9781              | -1.011          | 0.56            | -0.8106         | 2.39                  |
| 531 | 1       | 0.9087           | 0.4719              | 0.62                    | 1.159           |                      | 1.189           |                 | -1.661          | 0.22                  |
| 532 | 1       | 0.8088           | 0.6019              | 0.78                    | -0.04062        | 0.2719               | 0.2594          | -0.47           | -1.001          | 1.61                  |
| 533 | 1       | -0.1444          | -0.3213             | 0.2669                  | 0.6462          | 0.5987               | 1.106           | -0.4931         | -3.524          | -0.4431               |
| 534 | 1       | -0.8062          | -0.6431             | -0.065                  | -0.2456         | 0.1469               | 0.1444          |                 | -1.686          | 0.135                 |
| 535 | 1       | 0.1787           | 0.9419              | 0.5                     | -0.1406         |                      |                 |                 |                 | -0.57                 |
| 536 | 1       | -0.07313         | 0.11                | 0.2281                  | -1.133          | -2.79E-10            | 0.7175          | -1.552          | -1.123          | -0.6419               |
| 537 | 1       | -0.2312          | 1.072               | 0.1                     | -0.04062        | -0.02812             | 0.1694          | 1.04            | -0.6706         | -0.79                 |
| 538 | 1       | -0.6213          | -0.4081             | -0.43                   | -2.371          | 1.112                | 2.029           | -1.91           |                 | -0.76                 |
| 539 | 1       | 0.8138           | 1.357               | 1.025                   |                 | -0.5131              |                 |                 |                 | 0.745                 |
| 540 | 1       | 1.639            | 1.202               | 1.96                    | -0.000625       |                      | -1.161          |                 | -2.061          |                       |
| 541 | 1       | 1.361            | 0.5444              | 0.3325                  | -0.3281         | -2.346               | -1.438          | 0.1025          | 0.08187         | -0.4775               |
| 542 | 1       | 0.9688           | 0.04188             | 0.64                    | -1.361          | -1.468               | -0.9706         |                 |                 | -0.95                 |
| 543 | 1       | 1.623            |                     | 0.6047                  | 1.684           | 0.06656              | -0.06594        |                 |                 | 0.6247                |
| 544 | 1       | 1.399            | 0.1119              | 0.07                    | 2.339           |                      |                 | -0.8            | -0.5606         | -1.17                 |
| 545 | 1       | 1.42             | -0.1969             | 0.1812                  | 0.9406          | 0.07313              | 0.000625        | -1.949          | -0.7494         | -1.489                |
| 546 | 1       | 1.099            | -0.1881             | 0.25                    | 0.9294          | 0.7219               | -1.321          | 0.63            | 0.3494          | -0.39                 |
| 547 | 1       | -1.341           | -0.5381             | -1.15                   | 1.029           | 0.5319               | 1.429           | -1.41           |                 | -0.18                 |
| 548 | 1       | 0.2288           | -0.4581             | 0.96                    | 1.179           | 1.222                | 1.119           |                 | -0.6806         | 0                     |
| 549 | 1       | -2.26E-09        | 0.5031              | -0.3088                 | -0.6894         | 0.1331               | -1.179          |                 | -1.959          | -0.5988               |
| 550 | 1       | -0.4812          | 0.2019              | -2.91E-09               | 1.219           | -0.6481              | -1.041          | -3.05           | -0.1906         |                       |
| 551 | 1       | 0.1294           | -0.1675             | 0.6606                  | -0.65           | 2.073                | -0.06           |                 | -2.4            | -0.3394               |
| 552 | 1       | -2.26E-09        | -0.4469             | 0.6112                  | -0.4594         |                      | 0.1606          |                 | -1.689          | -0.5288               |
| 553 | 1       | -0.5312          | -0.6981             | -0.62                   | -0.8106         | 0.4419               | -0.8406         | -2.89           | -0.3506         | 0.55                  |
| 554 | 1       | -0.3506          |                     |                         | -1.12           | -0.8275              | -1.67           |                 |                 |                       |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 555 | 1       | 1.67             | 0.3231              | 0.9312                  | 0.9806          | -0.2769              | 0.00625         |                 | -1.909          | 1.251                 |
| 556 | 1       | -0.4231          |                     |                         | -0.0525         | -2.79E-10            | -0.9325         |                 |                 | 0.2081                |
| 557 | 1       | 1.493            | 1.336               | 1.424                   | 1.623           | 0.1259               | -3.247          |                 | -4.297          | 1.434                 |
| 558 | 1       | 0.6588           | 2.402               | -0.43                   | -0.00625        | 0.8819               | -1.811          |                 | -3.161          | -2.28                 |
| 559 | 1       | 0.05875          | -0.07812            | -0.31                   | 0.5094          | 0.6219               | -0.1906         | -0.47           | -0.7906         | -0.13                 |
| 560 | 1       | -0.2012          | 0.6319              | 0.02                    | -0.4606         | 0.8419               | -0.2706         | 1.06            | -0.4606         | -0.9                  |
| 561 | 1       | -1.166           | 1.377               | -0.795                  |                 | 0.8069               |                 |                 | -1.666          | -0.865                |
| 562 | 1       | -0.4012          | 0.3319              | 1.79                    | -1.161          | 0.3219               | -1.731          | -0.72           | -1.951          | 1.15                  |
| 563 | 1       | -2.26E-09        | 1.563               | -0.4588                 | -0.7394         | -1.637               | -0.8894         |                 | -1.989          | -0.6488               |
| 564 | 1       | -0.06125         |                     | -0.15                   |                 |                      | -0.9506         | -1              |                 | 0                     |
| 565 | 1       | -0.3256          | 2.968               | 1.066                   | -1.095          | 0.8875               | 0.265           |                 | -2.465          | -0.2644               |
| 566 | 1       | -0.4013          |                     | -0.15                   | -1.891          |                      | -0.9506         |                 | -1.681          | -0.1                  |
| 567 | 1       | -0.07063         | 1.893               | -0.8394                 | 0.07            | 0.8825               | -1.38           | -0.6894         | -1.31           | -0.2094               |
| 568 | 1       | 1.078            | 1.091               | 0.4891                  | 0.9184          | -0.1291              | 0.1384          |                 | -2.012          | -1.511                |
| 569 | 1       | 0.3888           | 2.002               | -1.14                   | -1.561          | -0.4381              | -0.9406         |                 | -2.091          | -0.62                 |
| 570 | 1       | -1.231           | 0.2319              | 0.05                    | -0.6006         | 0.4419               | -0.2406         |                 |                 | 0.2                   |
| 571 | 1       | -0.2456          | 0.0575              | 0.3856                  | -1.355          | 0.8475               | -0.045          | -0.7444         | -1.445          | -0.2244               |
| 572 | 1       | 0.355            | 0.2581              | -0.07375                | -1.544          | 0.2581               | -0.5844         |                 | -2.244          | 0.04625               |
| 573 | 1       | -0.1813          |                     |                         | -1.211          | 0.3519               | -1.491          |                 |                 | 1.12                  |
| 574 | 1       | -0.4812          |                     | -2.91E-09               |                 | 0.8319               | -0.1606         |                 |                 |                       |
| 575 | 1       | -0.5062          |                     | 0.935                   | -1.536          | 0.4469               | -1.716          | 0.135           | -2.066          | -0.445                |
| 576 | 1       | 0.2388           | 0.1419              | -0.16                   |                 | 0.7019               | -0.4606         | -0.51           |                 | -0.19                 |
| 577 | 1       | -2.26E-09        | 0.6131              | 0.5412                  | -0.3994         | 0.3031               | -0.4794         | -2.109          | -0.9894         | 0.8412                |
| 578 | 1       | -2.26E-09        | 0.8331              | -0.5088                 | -0.209          | 0.2731               | -0.3094         | -1.939          | -1.819          | 2.911                 |
| 579 | 1       | -2.26E-09        | 0.6731              | 0.07125                 | -1.129          | 0.9531               | -0.3594         | -1.119          | -1.069          | -0.6588               |
| 580 | 1       | -0.1612          | 0.4119              | 0.46                    | -0.8506         | 0.6419               | 3.759           | -0.48           | -0.6406         | 6.86E-09              |
| 581 | 1       | 0.1138           | 1.387               | -0.455                  | -0.7156         | -0.1531              | -0.2556         | -0.625          |                 | -0.045                |
| 582 | 1       | 0.4338           | 1.547               | -0.455                  | -1.396          |                      | -1.256          |                 |                 |                       |
| 583 | 1       | 0.04687          | -0.38               | -0.6219                 | -1.563          | -2.79E-10            | -0.8425         | -2.472          | -2.353          | -0.1519               |
| 584 | 1       | 0.3288           | -0.05812            | -0.56                   | -1.501          | 0.2819               | -0.3606         |                 |                 | -0.41                 |
| 585 | 1       | -0.2713          | 0.4919              | 0.14                    | -0.6306         | 0.6819               | 3.429           | -0.98           | -1.361          | -1.16                 |
| 586 | 1       | 0.08687          | -0.3                | -0.4219                 | -0.4525         | -2.79E-10            | -0.0525         | -0.2319         | -0.3925         | 0.3281                |
| 587 | 1       | -0.1166          | 0.1166              | 0.4247                  | 1.724           | 0.9666               | -0.7259         |                 |                 | -1.625                |
| 588 | 1       | 0.1937           | 1.277               | -0.305                  | -1.416          | -0.5331              |                 | -0.745          | -0.7456         | 0.715                 |
| 589 | 1       | 0.5938           | 1.327               | 0.025                   | -0.6556         | -0.6731              | -1.096          | -2.145          | -0.4456         | -0.825                |
| 590 | 1       | 0.03781          | 0.03094             | 0.4691                  | 0.07844         |                      | 0.3284          |                 | -0.2116         | -0.1209               |
| 591 | 1       | 1.744            | 0.2769              | 0.035                   | 0.8544          | 0.4269               | -1.616          | -3.985          |                 | -2.185                |



Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 592 | 1       | 0.045            | 0.3681              | -0.1338                 | 1.296           | -0.1119              | -0.04438        |                 | 0.1156          | -1.964                |
| 593 | 1       | -0.1056          | 0.9975              | 0.8056                  | -1.235          | 0.2675               |                 |                 | -2.415          | 0.7556                |
| 594 | 1       | -0.1156          | 0.2175              | 0.6856                  | 0.745           | -0.7025              | 3.105           |                 | -1.685          | -1.094                |
| 595 | 1       | 0.3237           | 1.417               | -0.285                  | -0.126          | -0.7231              |                 | 1.585           | -0.2356         |                       |
| 596 | 1       | 1.659            | 0.1319              | 1.08                    | -0.4806         | -3.958               | -0.6306         |                 | -1.411          | 0.67                  |
| 597 | 1       | 0.8588           | -0.1081             | 0.54                    | 0.1594          | -0.4181              | -0.3906         | 0.02            | -1.321          | 0.14                  |
| 598 | 1       | -0.43            | -0.8669             | -0.5188                 | 0.07062         | -1.187               | -0.6894         | -0.3688         | -0.8394         | 0.5912                |
| 599 | 1       | -0.2312          | 0.1419              | 1.46                    | -2.141          | -0.7381              | -1.581          | -0.83           | -1.511          | 0.17                  |
| 600 | 1       | 0.3788           | -1.208              | 2.29                    | -1.071          | -0.3481              | -0.9306         | -0.24           | -0.8606         | 0.24                  |
| 601 | 1       | 1.009            | 0.4825              | 1.251                   | 0.55            | 0.3825               | -0.17           | 0.7806          | -1.98           | -1.359                |
| 602 | 1       | -0.9063          | 0.3669              | 1.185                   | -1.686          |                      |                 | 1.145           |                 | -0.175                |
| 603 | 1       | 0.21             | -1.277              | -0.1988                 | -1.559          | -0.5769              | -0.9994         |                 |                 | -1.049                |
| 604 | 1       | -0.8209          | 0.01219             | -1.53                   | -2.13           | 1.512                | -0.7903         | 1.55            | -0.2003         | -0.6697               |
| 605 | 1       | 0.1288           | 0.5019              | -0.61                   | -1.141          | -0.7881              | -0.7206         | 0               | 0.2194          | -0.15                 |
| 606 | 1       | 0.3138           | 1.427               | -0.845                  | -0.9356         | -0.8031              | -1.646          |                 | -1.576          | -0.115                |
| 607 | 1       | 0.3128           | 0.7059              | -0.3459                 | -0.9866         | -0.03406             | 0.1234          |                 | -1.117          | -0.7759               |
| 608 | 1       | 1.51             | 1.023               | 0.1012                  | -0.5194         | -0.5369              | 0.000625        | -1.169          | -0.8294         | 0.6413                |
| 609 | 1       | 0.8888           | -1.078              | -1                      | -1.941          | -1.958               |                 |                 |                 |                       |
| 610 | 1       | 2.115            |                     | -1.874                  | -0.8144         | -0.2519              |                 |                 |                 |                       |
| 611 | 1       | 1.004            | 0.6369              | -0.505                  | -1.026          | -1.043               | -0.8856         | -1.935          | -1.816          | -0.355                |
| 612 | 1       | 0.5712           | -0.01562            | -0.5175                 | -1.458          | -1.476               |                 | -1.368          | -1.248          |                       |
| 613 | 1       | 0.3712           | 0.9844              | -0.9375                 |                 |                      |                 |                 |                 | -0.3675               |
| 614 | 1       | 0.1888           | 0.7019              | -0.22                   | -0.5806         |                      | -0.02063        |                 | -0.9506         | -0.07                 |
| 615 | 1       | 0.7469           | 0                   | 0.6081                  | 1.517           |                      | 1.317           | -3.942          |                 | -1.362                |
| 616 | 1       | -0.8222          | -1.269              | -0.9809                 | -0.4016         | 0.03094              |                 |                 |                 | 0.4291                |
| 617 | 1       | 0.2678           | 0.08094             | -0.1409                 | 0.8684          | -0.4791              |                 | -1.081          | 0.4784          | 0.3791                |
| 618 | 1       | -0.1812          | -0.3481             | 0.31                    | 0.3794          | 0.5519               | 0.7994          | -0.08           | -0.4706         | -0.05                 |
| 619 | 1       | 0.6488           | -0.5281             | 1.09                    | 1.529           | -1.378               |                 | 0.18            | 1.479           |                       |
| 620 | 1       | -0.6806          | -1.347              | -0.9094                 | 0.76            | 1.993                | 0.58            |                 | -0.07           | 1.221                 |
| 621 | 1       | 0.8288           | 0.1719              | 0.88                    | 0.9594          | -0.1481              | 0.7294          | -0.11           | -0.06063        | 0.13                  |
| 622 | 1       | 1.319            |                     | 2.14                    | 0.4094          | 0.1719               | -0.3406         | 1.13            | -0.5506         | 0.7                   |
| 623 | 1       | 0.2188           | 0.05188             | -0.09                   | 0.3794          | -0.3281              | 0.3294          |                 | -0.4506         | 0.26                  |
| 624 | 1       | -0.56            | -0.9369             | 0.9712                  | -1.119          | -1.137               |                 | 1.281           | 1.401           | 0.3912                |
| 625 | 1       | -0.1106          |                     | -0.3494                 | -0.05           |                      | -0.74           |                 | 0.05            | 0.1006                |
| 626 | 1       | -1.531           |                     | 0.21                    | -1.871          |                      | 0.6494          | 1.77            |                 |                       |
| 627 | 1       | -0.08063         | -1.557              | 0.3706                  | 0.15            | -0.9975              |                 | -0.5394         | 0.24            |                       |
| 628 | 1       | -0.4712          | -0.4481             | 0.13                    | -0.4306         | 0.4319               | -0.4706         | 0.26            | 0.5594          | 6.86E-09              |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC-INFA<br>ARRY4X | HMEC-C_CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 629 | 1       |                  |                     | -0.2                   | 0.5794          | 0.5619               | 0.3094          |                 | 0.07937         | 0                     |
| 630 | 1       | -0.1812          | 1.202               | -0.38                  | 0.3194          | 0.1519               | -1.121          | -1.87           | 0.6694          | -1.29                 |
| 631 | 1       | 0.8988           | -0.07812            | -2.91E-09              | 0.5294          | -0.09812             | 0.2494          | 0.33            | 1.899           | -2.36                 |
| 632 | 1       | -0.5962          | -0.08312            | 0.615                  | -0.5056         |                      | 0.7344          |                 |                 | 0.165                 |
| 633 | 1       | 0.3338           | 0.8069              | -0.005                 | -0.6856         | 0.2869               | -0.3856         |                 | 0.2044          |                       |
| 634 | 1       | -0.1412          | 0.6119              | 0.69                   | -0.3406         | 0.07188              |                 | 1.51            | -0.03063        | 0                     |
| 635 | 1       | -0.4762          |                     | 1.315                  | -0.5856         |                      | -1.986          |                 |                 | -0.215                |
| 636 | 1       | -0.3             | 1.013               | 0.08125                | -0.9994         |                      | 0.000625        |                 | 0.4306          | 0.4813                |
| 637 | 1       | -0.4412          | 1.012               | -0.27                  | -0.03062        | 0.9119               | 0.1594          | 1.11            | -1.321          |                       |
| 638 | 1       | -1.081           |                     | -0.12                  | 0.6494          | -0.02812             | 0.6494          |                 |                 |                       |
| 639 | 1       | -0.2706          | 0.6625              | 1.491                  | -0.42           |                      | 0.04            |                 | -1.21           | -1.109                |
| 640 | 1       | -2.26E-09        |                     | 2.241                  | -0.2094         | 1.113                | -0.2694         | 0.6012          | -0.8494         | 0.1012                |
| 641 | 1       | 0.4788           | 0.6919              | 1.07                   | -0.000625       |                      | 1.299           | -0.73           | 0.03937         | -1.59                 |
| 642 | 1       | -0.1413          | 0.2719              | 1.82                   | 0.5294          |                      |                 |                 | 0.1894          | -0.07                 |
| 643 | 1       | -0.05125         |                     |                        | 0.6794          |                      |                 |                 | -0.3206         | 0.79                  |
| 644 | 1       | 0.6244           |                     | -0.5144                | -1.215          | -0.3425              |                 |                 | -0.215          |                       |
| 645 | 1       | -0.2812          | -0.1381             | -0.04                  | -0.5106         | 0.2619               | -0.02063        | -0.59           | -0.06063        | 0.5                   |
| 646 | 1       | -2.26E-09        | 1.113               | -0.4788                | -0.3394         |                      | 0.5206          | 0.4712          | -1.409          | -0.6288               |
| 647 | 1       | -1.101           | 0.1919              | -0.14                  | -1.491          |                      |                 | -1.27           | -2.091          | -0.24                 |
| 648 | 1       | -0.4812          |                     | 0.08                   | -0.6006         | 0.7219               | -0.06062        | 0.5             | -1.061          | -0.15                 |
| 649 | 1       | -0.525           | 0.04813             | -0.00375               | -0.1244         | 0.3281               |                 | -0.4638         | -0.09438        | 0.5162                |
| 650 | 1       | -1.326           | 0.1869              | -0.075                 |                 | 0.4169               |                 |                 |                 | 0.065                 |
| 651 | 1       | 0.2588           | 0.1719              | 0.33                   | 0.009375        | 0.02188              | -0.07062        | 0.38            | 0.04938         | -0.68                 |
| 652 | 1       | -2.26E-09        | 0.6031              | 1.621                  | -0.4094         | -0.3069              | -1.619          | 2.441           | -0.4794         | -1.039                |
| 653 | 1       | 0.2688           | 0.4519              | -2.91E-09              | -0.6406         | -0.1181              | -0.1206         | -0.58           | -0.2406         | 0.17                  |
| 654 | 1       | -0.1162          | 1.337               | -0.105                 | 0.3944          | -0.4031              |                 |                 | -0.6556         | 0.125                 |
| 655 | 1       | -0.00875         | -0.2256             | -0.3475                | -0.2881         | 0.02438              | -0.09813        | -0.1975         | -1.128          | 0.1325                |
| 656 | 1       | 0.6088           | 1.422               | 0.92                   | 1.419           | 1.402                | 2.289           |                 | -0.2906         | -0.91                 |
| 657 | 1       | -0.57            | -0.7369             | -0.6588                | -0.3494         | 1.513                | 0.3606          | 1.251           | 1.191           | 1.671                 |
| 658 | 1       | -0.04125         | 0.2819              | -0.5                   | -0.7106         | 1.082                | 0.1694          | 1.25            | 0.9894          | 0.13                  |
| 659 | 1       | -1.041           |                     | -1.52                  | 0.8494          | 1.592                | 1.349           |                 | 0.7994          |                       |
| 660 | 1       | -2.26E-09        | -1.427              | 0.03125                | 2.691           | 2.813                | 2.261           | 3.651           | 1.141           | -0.3388               |
| 661 | 1       | -0.2288          | -1.136              | 0.4725                 | 3.392           | 5.394                | 4.352           | 6.742           | 2.772           | -2.118                |
| 662 | 1       | -0.2012          | -0.5581             | -1.15                  | 0.1494          |                      |                 | 1.96            | -0.03062        |                       |
| 663 | 1       | 0.2188           | -0.7681             | -0.15                  | 0.4894          | 0.9219               | 0.5994          | 3.53            | 0.1494          |                       |
| 664 | 1       | -1.371           | -0.9181             | 1.58                   | -0.2906         | 1.102                | 1.509           |                 |                 | 1.09                  |
| 665 | 1       | -0.5012          | 0.7719              | -0.79                  | 1.489           | -1.278               | -1.391          | 0.74            | -0.3706         | 2.49                  |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC-INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 666 | 1       | -0.2631          | 0                   | -0.4019                 | -0.1025         |                      |                 |                 |                 | 0.6981                |
| 667 | 1       | 0.1837           | -0.4931             | -0.075                  | 0.7644          | 0.2469               | -0.2756         |                 | -0.9456         |                       |
| 668 | 1       | -2.26E-09        | -0.8669             | -0.08875                | 0.2006          | 0.5631               | -0.009375       |                 |                 | 0.2112                |
| 669 | 1       | -0.8562          | 0.3469              | -1.085                  |                 |                      |                 | -0.995          | 0.1144          |                       |
| 670 | 1       | -0.6212          | 0.5919              | -1.81                   | -1.971          |                      |                 |                 |                 | 0                     |
| 671 | 1       | -0.1006          | 1.003               | -0.3394                 |                 | 0.4425               | -0.49           |                 | -0.88           |                       |
| 672 | 1       | 0.3069           |                     | -1.042                  | -1.723          | -2.79E-10            | -1.583          |                 | -0.7725         | 0.1081                |
| 673 | 1       | -0.1622          | 0.05094             | 0.1591                  | -0.8316         | 0.6709               | -0.9216         | -0.5009         | -0.5716         | 0.3491                |
| 674 | 1       | 0.6138           | 0.6669              |                         | 0.1744          | 1.707                |                 |                 | -1.056          |                       |
| 675 | 1       | 0.6788           | 0.6619              | 0.2                     | -0.00625        |                      | -0.3706         |                 |                 | 0.05                  |
| 676 | 1       | -0.9731          | 0                   | 1.288                   | -1.423          | -0.3                 | -1.383          | -0.1519         | 4.877           | -0.4819               |
| 677 | 1       | -0.09125         | -0.2581             | -0.44                   | -0.3006         | 0.2619               | 0.3294          | -0.1            | 2.239           | -0.1                  |
| 678 | 1       | 0.1588           | -0.1081             | 1.68                    |                 |                      |                 |                 |                 | -0.02                 |
| 679 | 1       | -0.5931          | 0                   | -0.5419                 | -0.0925         | 2.44                 |                 |                 |                 | 3.218                 |
| 680 | 1       | -0.4256          | -0.7525             | -0.2344                 | -0.305          | 1.138                | 0.235           |                 |                 | 0.4456                |
| 681 | 1       | -0.3313          | 0.2719              | 0.09                    | 0.1794          | -0.1281              | 2.069           | 0.68            | 1.159           | -0.76                 |
| 682 | 1       | -1.621           | -0.7881             | 0.13                    | -0.5606         | 0.7919               | 0.9894          | -0.29           | -1.061          | 0.03                  |
| 683 | 1       | 0.5588           | 0.9819              | 1.13                    | -0.2606         | -2.158               | -1.201          | 0               | 0.1194          | -0.95                 |
| 684 | 1       | -0.5762          | 0.3069              | 0.335                   | 0.7144          | -1.003               | -1.226          | -1.355          | -1.196          | -0.095                |
| 685 | 1       | 0.1288           | 0.1219              | -2.91E-09               | 0.5794          | -1.068               | 0.5194          | -0.42           | 0.01937         | -0.39                 |
| 686 | 1       | -0.01562         | -0.5525             | 0.09562                 | 0.575           | -1.152               | 0.715           | -1.534          | -3.475          |                       |
| 687 | 1       | 0.09844          | -0.09844            | 0.1997                  | 0.9791          | -0.5684              | 0.5891          | -0.5903         | -1.751          |                       |
| 688 | 1       | -0.07125         | -0.9281             | -0.38                   | 0.07938         | 0.02188              | 0.6294          | 0.07            | -0.05062        | -0.02                 |
| 689 | 1       | 0.7388           | 0.7019              | 1.37                    | 1.059           | 0.2019               | 1.339           | -0.69           | -1.311          | -0.62                 |
| 690 | 1       | 0.1869           | 0.62                | 1.088                   | 0.7475          | -2.79E-10            | 0.7275          | -1.492          | -1.653          | -1.032                |
| 691 | 1       |                  | -1.198              | 0.63                    | -0.3106         |                      |                 |                 | -1.011          | 0                     |
| 692 | 1       | -2.26E-09        | 1.663               | -0.5688                 | -0.2694         | -0.07687             | -1.949          |                 | -2.019          | 1.481                 |
| 693 | 1       |                  | 0.9519              | -2.91E-09               | 1.869           |                      |                 |                 |                 |                       |
| 694 | 1       | 0.5587           | 0.07187             | -0.26                   | -0.09063        | -0.06813             | 0.3194          | -3.7            | -1.991          | 1.74                  |
| 695 | 1       | 0.8037           | 0.3369              | 0.355                   | 0.6044          |                      | 0.3144          | -1.875          | -1.166          | 0.305                 |
| 696 | 1       | -0.1362          | 0.5769              | 1.245                   | 0.2844          | -0.3531              | -0.5356         |                 | -1.356          | 0.025                 |
| 697 | 1       | 0.7569           | 0                   | 1.258                   | 0.9675          |                      | -0.9425         | -1.332          | -2.353          | -1.332                |
| 698 | 1       | -0.5812          | 0.3519              | -0.2                    | -0.5306         | 0.6419               | 0.3494          | -0.25           |                 | -0.32                 |
| 699 | 1       | -0.5012          | 0.1419              | -2.91E-09               | -0.9406         | -0.8281              | -0.9306         |                 | -0.9106         | 0.09                  |
| 700 | 1       | -0.1912          | 0.9619              | -0.01                   |                 | 0.07188              | -0.7406         |                 |                 | -1.03                 |
| 701 | 1       | -2.26E-09        | -0.3869             | -0.1588                 | -0.2094         | -1.267               | -0.6394         | -0.1188         | 0.3106          | 0.09125               |
| 702 | 1       | 0.7787           | 0.6819              | 0.35                    | -2.091          | -1.108               | -0.9506         |                 |                 | 0.12                  |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF12<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 703 | 1       | 1.238            | 1.221               | 0.2991                  | -0.9616         | -0.2991              | -1.562          | -0.4909         | -1.072          | 0.8491                |
| 704 | 1       | 0.1987           | 1.662               | -0.47                   |                 | 0.04187              |                 |                 | 0.2894          | -0.61                 |
| 705 | 1       | -0.09125         | 1.462               | -2.91E-09               | 0.6594          |                      |                 |                 | -0.8006         |                       |
| 706 | 1       | 0.2788           |                     | 0.77                    | 1.209           | 1.062                | -0.3606         | -0.47           |                 |                       |
| 707 | 1       | 0.2044           |                     | -0.4044                 | 0.595           | 0.8675               |                 | -4.774          |                 | -1.074                |
| 708 | 1       | 1.529            |                     | 0.85                    | -0.6706         | -0.1081              | -1.531          |                 |                 | 0                     |
| 709 | 1       | -0.4412          | 0.8619              | -0.35                   | -1.471          | 0.1019               | -1.061          |                 | -1.261          | 1.67                  |
| 710 | 1       | -2.26E-09        | 1.363               | -0.1688                 | -0.4494         | 0.2731               |                 |                 | -0.5594         |                       |
| 711 | 1       | 0.5944           | 0.3275              | -1.294                  | -0.655          | -1.672               |                 |                 | -0.025          | 0.3156                |
| 712 | 1       | 0.4112           | 0.6244              | -0.4375                 | -1.118          | 0.5244               | -0.5581         |                 | -0.4881         | -0.4375               |
| 713 | 1       | 0.1587           | -1.598              | -0.24                   | 0.01937         | -0.3781              | -0.04063        |                 | -0.2006         | 0.15                  |
| 714 | 1       | 0.6038           | 1.617               | -0.205                  |                 | -1.903               | -0.3256         | -0.795          | -0.6756         | -0.475                |
| 715 | 1       | -0.07125         | 0.5919              | -0.65                   | -0.8806         | 0.8819               |                 |                 |                 |                       |
| 716 | 1       | 0.6369           | 0.88                | -0.4519                 | -0.3925         | -2.79E-10            | -0.6225         | -0.3019         | -0.3525         | -0.1519               |
| 717 | 1       | -0.6363          | 0.2669              | -0.575                  | 0.1644          | 1.147                | 0.2044          | 1.055           | 0.2744          | -1.165                |
| 718 | 1       | 0.03938          | 0.6525              | 0.07062                 | -1.87           | 0.7025               | -0.3756         | 1.811           | 2.76            | -0.03938              |
| 719 | 1       | -0.2213          | -0.3881             | -0.56                   | 0.1894          | 1.432                | -1.431          |                 | 1.669           | 2.4                   |
| 720 | 1       | -0.5663          | 2.587               | -1.025                  | -0.5256         |                      | -0.8256         |                 |                 |                       |
| 721 | 1       | -1.036           | -0.6131             | -0.245                  | 3.284           |                      | 0.8844          | 5.445           | 0.7344          |                       |
| 722 | 1       | -0.4862          | 1.417               | -0.235                  | -0.2456         | 0.6469               | -0.3756         | 3.525           | 2.014           | -0.625                |
| 723 | 1       | -0.06563         | 0.9875              | -2.524                  |                 |                      | -2.205          |                 |                 | 0.06562               |
| 724 | 1       | -0.3412          | 0.01188             | -0.68                   | -0.000625       | -0.3619              |                 |                 | -1.961          | -0.93                 |
| 725 | 1       | -2.321           |                     |                         |                 |                      | -1.921          | -1.97           | 1.299           |                       |
| 726 | 1       | 0.1388           | 0.1319              | -0.13                   | -0.3706         | 0.5919               | 0.4794          | -0.57           | -0.4706         | -0.77                 |
| 727 | 1       | 0.2087           | -1.888              | -1.12                   | 0.09937         |                      | 0.7094          |                 |                 |                       |
| 728 | 1       | -2.26E-09        |                     | 0.2612                  | -0.8294         | 0.7831               | 0.2806          |                 | -1.239          | 0.06125               |
| 729 | 1       | -0.9212          |                     | -1.7                    |                 |                      |                 |                 | 0.6494          |                       |
| 730 | 1       | -0.8006          |                     | -1.349                  | -2.49           |                      |                 |                 | 0.38            |                       |
| 731 | 1       | -0.2112          | -0.4881             | -0.27                   | -0.6606         | -1.408               | -1.031          | 0.08            | 1.529           | -1.01                 |
| 732 | 1       | -0.2662          | -0.3431             | -0.045                  | -0.05562        | -1.263               | 0.1744          |                 |                 |                       |
| 733 | 1       | 0.2688           |                     | -0.17                   | -0.000625       |                      |                 |                 | 0.9894          | -0.52                 |
| 734 | 1       | 2.758            | 0.7709              | 0.7391                  | 0.008437        | -0.009062            | -0.6016         |                 |                 | -1.751                |
| 735 | 1       | 0.2688           | 0.1919              | 0.69                    |                 |                      | -0.1606         | -1.2            | -1.311          | 0                     |
| 736 | 1       | -0.2712          | 1.022               | 0.27                    | 1.319           | 1.082                | 1.209           | -4.13           | -1.951          | -0.76                 |
| 737 | 1       | 0.7288           | 0.6019              | 1.39                    | 0.6794          | 0.3819               | 1.569           | -1.59           | -1.291          | -2.05                 |
| 738 | 1       | 0.6128           | 0.4459              | 1.224                   | 1.333           | 0.3659               | 1.043           |                 | -3.177          | -0.3659               |
| 739 | 1       | -0.2212          | -0.01812            | 1.5                     | 0.7894          | 0.5719               | 2.679           | -0.38           | 0.2594          | -0.83                 |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 740 | 1       | -2.586           |                     | -2.195                 | 0.9644          | 1.687                | 1.284           | -3.845          | -1.146          | -2.525                |
| 741 | 1       | 0.06875          | -1.128              | -0.2                   | 0.1594          | 0.9219               | 1.299           | -2.17           | -0.4606         | -0.51                 |
| 742 | 1       | 1.499            | 1.242               | 0.88                   | 2.539           | 0.7719               | 2.699           | -2.61           | -3.911          | -1.22                 |
| 743 | 1       | -2.081           | 1.202               | 1.5                    | 0.7894          | 0.5219               | 0.4294          | -3.06           | -3.281          | 0.21                  |
| 744 | 1       | -0.08125         | -0.2781             | 0.11                   | 1.579           | 0.7619               | 1.349           | -4.31           | -1.971          | 0                     |
| 745 | 1       | 0.3769           | -2.78E-17           | -0.1119                | 0.6475          | 1.87                 | 2.207           | -1.792          | -3.023          | -0.2519               |
| 746 | 1       | -0.97            |                     | 0.1712                 | 0.9606          | -0.6469              | 0.000625        | -0.7388         | -0.9194         | -0.05875              |
| 747 | 1       | 0.4088           | -0.08812            | -0.15                  | 0.1894          | 0.5919               | 1.599           |                 | -0.2106         | -0.25                 |
| 748 | 1       | -0.6312          | -0.8881             | -2.91E-09              | 0.1694          | 1.742                | 1.659           |                 | -1.011          | -0.77                 |
| 749 | 1       | -0.1113          | -1.058              | 0.56                   | 1.069           | 2.192                | 2.529           | -0.92           | 0.6694          | -2                    |
| 750 | 1       | -0.89            | 0.6131              | -0.5788                | 1.161           | 2.163                | 1.971           | -1.599          | 0.000625        | -2.719                |
| 751 | 1       | -1.881           | -0.2381             | -2.91E-09              | 4.159           | 4.322                | 4.129           | -0.88           | 2.339           |                       |
| 752 | 1       | 0.1069           | 0                   | 0.3281                 | 1.177           | 0.74                 | 1.157           | -1.252          | -0.8125         | -0.5319               |
| 753 | 1       | 0.3228           | 0.1959              | 0.8441                 | 1.893           | 1.236                | 2.323           | -0.1959         | -0.3266         |                       |
| 754 | 1       | 0.1              | -0.5869             | 2.831                  | 1.471           | 0.5131               | -0.1694         |                 | 0.000625        | -0.7087               |
| 755 | 1       | 0.3088           |                     | 0.41                   | 0.6894          | 0.5619               | 0.1994          | 0.42            | -0.06062        |                       |
| 756 | 1       | -0.6688          | -0.6156             | -0.4375                | -1.108          |                      |                 |                 |                 | -0.1075               |
| 757 | 1       | -0.2662          |                     | -0.135                 | -1.296          |                      | -0.7356         | 0.385           |                 | -1.785                |
| 758 | 1       | -0.2113          | -0.7381             | 0.47                   | 1.289           | -0.2281              | -0.6806         | -0.15           | -0.7606         | 0.84                  |
| 759 | 1       | 0.04875          | 0.1719              | -2.91E-09              |                 | -0.1281              | 0.2394          | -0.12           | -1.101          | -0.94                 |
| 760 | 1       | 0.1894           | 0.8925              | -0.7194                | -0.41           | -0.2075              | -0.47           | -0.57           | -0.57           | -1.369                |
| 761 | 1       | -0.06125         | 1.012               | 0.17                   | -0.5106         | -0.3081              | 0.04937         | -0.2            | -0.5606         | -0.42                 |
| 762 | 1       | 0.1988           | -0.4581             | -0.51                  | -0.4506         | -0.4181              | -0.7806         | -2.2            | -0.2006         | 0.15                  |
| 763 | 1       | 0.05781          | 0.02094             | 0.7691                 | -0.5316         | 1.031                | 1.748           |                 | -0.9216         | -0.3309               |
| 764 | 1       | -0.1512          | -0.8981             | -0.41                  | -0.05062        | 0.1219               | -1.291          | 0.13            | 0.2694          | -0.12                 |
| 765 | 1       | 0.4588           | -1.748              | -1.21                  | -0.000625       |                      | -2.301          |                 | 0.3994          | -0.44                 |
| 766 | 1       | -0.4756          | -0.5025             | -0.5344                | -0.965          | 0.2375               | -0.495          |                 | -0.155          | 1.806                 |
| 767 | 1       | -0.1062          | -0.4231             | -1.345                 | -0.6656         | -1.303               | 0.2744          |                 | -0.2556         | -0.085                |
| 768 | 1       | 0.06875          | -0.1681             | -0.32                  | -0.4506         | -1.028               | -0.1706         |                 | -0.5606         | -0.39                 |
| 769 | 1       | 0.3538           | -0.4031             | -1.225                 | -0.4356         | -1.573               | -1.706          |                 |                 | 0.785                 |
| 770 | 1       | 0.9087           | 0.1919              | -0.77                  | -0.8906         | -1.568               | -1.091          | 0.13            | 0.5194          | 0.71                  |
| 771 | 1       | -0.3812          | -0.7481             | -0.86                  | -0.000625       | -0.7381              | -1.121          | 1.29            | 1.979           | 1.58                  |
| 772 | 1       | -0.01125         | -0.2181             | 0.16                   | -0.8806         | -0.8481              | -0.9506         | -0.82           | 0.01937         | 0.56                  |
| 773 | 1       | -0.15            |                     | -1.509                 | -0.7894         |                      | 0.1506          |                 |                 | 0.6412                |
| 774 | 1       | -0.8262          | -0.9931             | -0.335                 | -1.226          | 0.08688              | -0.3656         | 2.285           | -0.4956         | 0.345                 |
| 775 | 1       | -0.7212          | -0.5581             | -1.68                  | -1.121          | -1.018               | -1.041          |                 | 0.3394          | 1.71                  |
| 776 | 1       | -1.33            |                     | -2.349                 | -0.8594         | -1.697               | 0.000625        |                 | 0.9806          | -0.7387               |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF12<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 777 | 1       | -1.951           |                     | -2.22                   | -2.511          | -2.798               |                 | 2.18            | 2.949           | -0.2                  |
| 778 | 1       | -1.621           |                     | -1.43                   |                 |                      | 0.4194          | 4.08            | 2.629           | -0.26                 |
| 779 | 1       | -2.26E-09        | -0.05687            | -1.709                  | -0.4394         | -0.6669              | -0.9694         |                 | 0.7806          | 0.5912                |
| 780 | 1       | -0.6013          | 0.7919              | -0.35                   | -1.091          | 0.06187              | -1.251          |                 | -0.3006         | -0.25                 |
| 781 | 1       | 0.35             | -0.1869             | 0.07125                 | 1.031           | -0.2269              | 0.04062         | -0.9388         | 0.000625        | -0.06875              |
| 782 | 1       | -0.8912          | -1.258              | -1.13                   | 0.5194          | 0.6619               | 0.3094          | -0.23           | 0.03938         | -0.46                 |
| 783 | 1       | -0.09125         | -0.1681             | -0.07                   |                 | 1.472                | 1.389           | -0.65           | -0.2206         | -1.49                 |
| 784 | 1       | -0.405           | -0.8619             | -1.444                  | -0.07438        | -0.1819              | -0.9344         | 0.3562          | 0.1056          | 0.4162                |
| 785 | 1       | -0.5613          |                     | -2.11                   | -0.8006         | -2.068               | -1.111          | 0.15            | 1.439           | 1.22                  |
| 786 | 1       | -0.5012          | -0.7281             | -0.7                    | 0.2594          | -0.3681              | 0.4294          | -0.16           | 0.009375        | 0.92                  |
| 787 | 1       | -0.6512          | -0.01812            | -0.39                   |                 | -1.048               | -2.191          | 0.48            | 0.3294          | 0.14                  |
| 788 | 1       | 0.08438          | -0.5725             | -0.7544                 | -1.185          |                      | -0.315          |                 | 2.975           | -0.4044               |
| 789 | 1       | -0.6912          | -1.168              | -0.58                   | -1.341          | -0.9181              | -2.701          | -0.81           | 0.8094          | 2.72                  |
| 790 | 1       | -0.2012          | 1.022               | 0.93                    | -1.861          | -0.8081              | -1.721          | -0.77           | 1.329           | -1.77                 |
| 791 | 1       | 0.6469           | 0                   | -0.03188                | -0.2225         | -0.19                | -0.0325         | -0.8019         | 0.0375          | 0.2281                |
| 792 | 1       | -0.1612          | -0.1081             | -0.03                   | -0.000625       | -0.7581              | -0.1006         | -0.1            | 0.3094          | 1.35                  |
| 793 | 1       | -0.8312          | -2.288              | -3.06                   | -0.000625       | -1.638               | -3.381          | 0.66            | 2.179           | 0.26                  |
| 794 | 1       | -2.011           | -3.058              | -2.6                    | -0.1206         | -2.312               | -1.091          | -0.47           | 0.8794          |                       |
| 795 | 1       | -0.00125         | -0.6681             | -0.29                   | 0.03938         | -1.298               | -0.2506         | -4.72E-16       | -1.981          | 0.26                  |
| 796 | 1       | -0.6812          | -1.508              | -0.59                   | -0.000625       |                      | -0.6806         | -1.54           | -0.02063        | 0.58                  |
| 797 | 1       | -0.01125         | -0.7181             | -0.45                   | 0.1394          | -0.01812             | 0.03938         | -0.45           | -0.02062        | 0.75                  |
| 798 | 1       | -1.141           | -1.848              | -1.77                   | -1.381          | -1.278               | -0.5306         | 2.46            | 1.539           | 1.32                  |
| 799 | 1       | -0.1312          | -0.8281             | -1.6                    | -0.2806         | 0.01188              | -1.311          | 0.41            | 0.7594          | 1.03                  |
| 800 | 1       | -0.2212          | -0.07812            | -0.91                   | -0.4106         |                      | -0.8306         | 1.06            | 2.789           | 0.6                   |
| 801 | 1       | 0.09             | -0.3569             | -1.559                  | -0.2994         | -0.6869              | 0.000625        | 2.491           | 3.081           | 2.511                 |
| 802 | 1       | -0.2312          | -0.3781             | 0.06                    | -0.8606         | -1.368               | -1.591          | 0               | 0.1494          | 0.48                  |
| 803 | 1       | -0.04125         | -1.178              | -1.43                   | -0.2806         | -0.4281              | -0.6306         | -0.92           | -0.05062        | 0.08                  |
| 804 | 1       | -0.5213          | -1.278              | -1.89                   | -0.2006         | -0.04813             | -1.411          | -0.2            | 0.04937         | 0.92                  |
| 805 | 1       | -0.7412          | -1.758              | -1.05                   | -0.7306         | -0.3181              | -0.7606         | -0.18           | 0.2194          | 0.28                  |
| 806 | 1       | -0.7662          | -0.8131             | -0.545                  | -0.5956         |                      | -1.326          | -0.125          | 0.3844          | 0.755                 |
| 807 | 1       | -0.5412          | -1.058              | -0.98                   | 0.1694          | 0.2419               | 0.3594          | -0.02           | -0.03063        | -0.58                 |
| 808 | 1       | -0.7812          | -1.088              | -0.74                   | -0.2906         | 0.5019               | 0.09937         | -0.23           | -0.06062        | 0.39                  |
| 809 | 1       | -0.6762          | -2.093              | -1.705                  | -0.02562        | 0.1769               | 0.5444          | 0.345           | 0.4944          | -1.125                |
| 810 | 1       | -0.2912          | -1.808              | -1.4                    | -0.000625       | -1.118               | 0.3694          | -0.37           | 0.1294          | 0.11                  |
| 811 | 1       | 0.1588           | -0.6081             | -0.57                   | -0.6206         | -2.868               | -0.3506         | -0.42           | -0.000625       | 1.39                  |
| 812 | 1       | -0.4312          | -1.758              | -0.81                   | 0.05938         | -0.2881              | -0.5806         | -0.2            | 0.08938         | -0.55                 |
| 813 | 1       | 0.1128           | -1.704              | -0.7159                 | -0.9266         | -0.06406             | -0.2766         |                 | 0.5134          | 1.074                 |

Table 2

|     | GWEIGHT | HMEC-C    | HMEC+INFA | HMEC-C_CONF12 | 184AA     | 184A1-LATE | 184B5    | HMVEC   | HUVEC    | MDA-MB-321 |
|-----|---------|-----------|-----------|---------------|-----------|------------|----------|---------|----------|------------|
|     |         | ARRY2X    | ARRY4X    | ARRY3X        | ARRY5X    | ARRY1X     | ARRY0X   | ARRY7X  | ARRY6X   | ARRY11X    |
| 814 | 1       | -0.45     | -1.387    | 0.06125       | -0.9894   | -0.1069    | -0.3294  | -0.1888 | 0.000625 | 0.6613     |
| 815 | 1       | -0.2144   |           | -0.8431       | -0.3837   | 0.4488     | -0.7738  | -0.3631 | 0.00625  | 0.6369     |
| 816 | 1       | -1.071    |           | -1.929        | -0.54     | -0.1775    | 0.24     | -1.579  | 0.16     | 0.8006     |
| 817 | 1       | 0.17      | -1.147    | -0.6388       | -0.07937  | -0.6869    | -0.8494  | -0.7188 | 0.000625 | 0.8512     |
| 818 | 1       | -0.8912   | -1.778    | -1.18         | -0.9706   | 0.2119     | -0.3306  | -1.2    | 0.02938  | 0.28       |
| 819 | 1       | -1.221    | -2.798    | -2.66         | -0.3106   | -1.178     | -1.581   | 0.34    | 0.1194   | 0.51       |
| 820 | 1       | -0.7413   |           |               |           |            |          |         |          | -1.51      |
| 821 | 1       | -1.141    | -2.938    | -1.95         | -1.451    | -1.468     | -2.371   | 0       | 0.6994   | -0.71      |
| 822 | 1       | -1.141    | -1.748    | -2.04         | -0.3606   | -0.6281    | -0.8606  |         | -0.5706  | -0.06      |
| 823 | 1       | -0.48     | -2.207    | -1.129        | 0.1006    | -0.3769    | 0.000625 | -0.5688 | 0.07062  | 0.7213     |
| 824 | 1       | -2.26E-09 | -2.037    | -1.719        | -1.029    | -0.9969    | -1.519   | 0.4312  | 0.4306   | 1.131      |
| 825 | 1       | -0.3513   | -1.418    | -1.34         | -0.5106   | 0.06187    | -1.101   | -0.64   | -0.07063 | 1.23       |
| 826 | 1       | -0.1172   | -0.9141   | -0.7159       | 0.02344   | -0.02406   | -1.257   | -0.7359 | -0.1566  | 1.024      |
| 827 | 1       | -0.9912   | -0.5581   | -1.74         | -0.4206   | 0.5819     | -0.6606  | 0       | 0.1694   | 0.24       |
| 828 | 1       | -0.06125  | -0.8981   | -0.77         | -0.07062  | -1.298     | -0.9606  | -0.03   | 0.06937  | 0.46       |
| 829 | 1       | 0.06875   | -0.7181   | -0.51         | -0.1406   | -1.598     | -0.03062 | -0.23   | -0.07062 | 1.56       |
| 830 | 1       | -0.6713   |           |               |           |            |          |         |          | 0.25       |
| 831 | 1       | -0.6612   | -1.828    | -1.6          | -0.000625 | -0.2781    | -0.5006  | -1.5    | 0.3894   | 0.66       |
| 832 | 1       | -0.7913   | -2.518    | -2.44         | -0.3506   | -0.2181    | -0.06063 | -0.49   | 0.5994   | 1.18       |
| 833 | 1       | -0.6931   | -1.58     | -1.502        | 0.1575    | -2.79E-10  | -3.003   | -0.6819 | -0.3825  | 0.7981     |
| 834 | 1       | -1.411    | -3.238    | -2.42         | -0.3306   | 0.4519     | -0.6906  | -0.64   | 0.04938  | 1.06       |
| 835 | 1       | -0.8112   | -2.538    | -2.12         | -0.4206   | 0.3319     | -1.461   | 0.4     | 1.079    | 1.36       |
| 836 | 1       | 0.3688    | -1.618    | -1.44         | -0.1006   | -0.3981    | -1.391   | 0.15    | 0.7994   | 1.03       |
| 837 | 1       | -0.2913   | -2.828    | -2.26         | -0.7306   | -1.678     | -1.441   | -0.08   | 0.1894   | 1.11       |
| 838 | 1       | -0.7813   | -2.078    | -1.06         | -0.3006   | 0.1619     | -0.2406  | -0.8    | -0.1406  | 0.7        |
| 839 | 1       | -0.5812   | -1.238    | -1.7          | -0.2706   | -0.1881    | -0.6806  | -0.52   | 0.1394   | 0.82       |
| 840 | 1       | 0.15      | -0.8569   | -1.159        | -0.4894   | -1.537     | -1.379   | -1.229  | 0.000625 | 0.6713     |
| 841 | 1       | -0.5512   | -0.6981   | -1.72         | -0.5606   | -2.208     | -1.761   | -1.06   | -0.05063 | 1.26       |
| 842 | 1       | -0.3912   | -1.428    | -1.03         | -0.6206   | -1.518     | -1.361   | -0.5    | 0.06938  | 1.1        |
| 843 | 1       | -0.3412   | -1.358    | -1.46         | -0.3106   | -0.8081    | -1.201   | -0.19   | 0.4794   | 0.75       |
| 844 | 1       | -2.26E-09 | -0.8669   | -0.6688       | -1.269    | 0.6131     | -1.329   | -0.8088 | -0.4594  | 0.5812     |
| 845 | 1       | -2.26E-09 | -0.9869   | -0.5588       | -1.399    | -1.577     | -1.209   | -1.719  | -0.3794  | 0.7412     |
| 846 | 1       | -0.2412   | -1.968    | -1.89         | -0.3706   | -1.388     | -1.911   | -0.46   | 0.2494   | 0.51       |
| 847 | 1       | -0.1212   | -1.208    | -1.06         | -0.5606   | -1.328     | -1.401   | -0.52   | 0.09938  | 1.01       |
| 848 | 1       | -1.021    | -2.508    | -2.23         | -1.301    | -2.128     | -1.421   | -0.99   | 0.2594   | 0.96       |
| 849 | 1       | -0.9712   | -2.008    | -1.7          | -1.001    | -0.7381    | -1.351   | -2.3    | -0.03062 | 0.99       |
| 850 | 1       | -0.8062   | -2.563    | -1.985        | -0.6256   | -1.623     | -2.126   | -3.415  | -0.4456  | 0.955      |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 851 | 1       | -2.001           | -4.068              | -3.09                  | -2.411          | -1.538               | -3.011          | -0.84           | 0.04938         | -1.94                 |
| 852 | 1       | -1.011           | -1.878              | -2.57                  | -0.1506         | -0.1081              | -1.751          | -0.06           | 0.5794          | 0.78                  |
| 853 | 1       | -1.05            | -3.067              | -2.209                 | -0.3594         | 0.3831               | -1.289          | -0.2888         | 0.000625        | 1.511                 |
| 854 | 1       | -1.16            | -2.177              | -2.309                 |                 | 0.3831               | -1.229          | -0.1588         | 0.000625        | 1.351                 |
| 855 | 1       | -1.089           | -3.146              | -2.108                 | -0.1481         | 0.1944               | 0.1919          | -0.6275         | 0.1219          | 1.212                 |
| 856 | 1       | -0.9412          | -2.108              | -1.5                   | -0.7706         | 0.3819               | -1.251          | -0.66           | -0.3506         | 1.06                  |
| 857 | 1       | -2.26E-09        | -1.067              | -1.269                 | -0.5194         | -0.1669              | -1.349          | -1.599          | 0.2606          | 1.201                 |
| 858 | 1       | -0.9412          | -1.698              | -2.26                  | -1.271          | 0.07188              | -1.211          | -1.83           | -0.2106         | 0.07                  |
| 859 | 1       | -0.4313          | -1.758              | -1.68                  | -0.5106         | 0.8419               | -0.8306         | -0.23           | 0.3794          | 0.55                  |
| 860 | 1       | -0.6672          | -2.454              | -1.956                 | -0.1866         | 0.08594              | -1.757          | 0.1641          | 0.7634          | 0.2041                |
| 861 | 1       | -0.5912          | -2.088              | -1.8                   | -0.7906         | -0.5881              | -1.321          | -0.2            |                 | 0.33                  |
| 862 | 1       | -0.2813          | -1.648              | -1.53                  | -0.6006         | -0.6181              | -0.1706         | -0.27           | 0.4594          | 1                     |
| 863 | 1       | -0.5012          | -2.048              | -1.84                  | -0.000625       | -0.09812             | -0.9106         | 0.64            | 0.7394          | 1.41                  |
| 864 | 1       | -0.3412          | -1.998              | -1.74                  | -0.1806         | 0.7219               | -0.6206         | -0.65           | 0.7294          | 0.92                  |
| 865 | 1       | -0.6112          | -2.298              | -2.04                  | -0.2206         | 0.3319               | -0.5406         | 0.3             | 0.5794          | 1.13                  |
| 866 | 1       | -0.88            | -2.607              | -2.189                 | -0.5394         | 0.4131               | -1.129          | -0.6588         | 0.000625        | 1.061                 |
| 867 | 1       | -0.8988          | -2.116              | -2.318                 | -0.7181         | 0.7744               | -0.9981         | -0.4775         | 0.4319          | 0.2625                |
| 868 | 1       | -1.011           | -2.348              | -2.13                  | -0.5606         | 0.8319               | -0.7206         |                 |                 | 0.24                  |
| 869 | 1       | -1.151           | -1.868              | -3.05                  | -0.7306         | 0.3419               | -1.321          | -0.09           | -0.1706         | 1.35                  |
| 870 | 1       | -0.09125         | -1.768              | -1.76                  | -0.2606         | 0.4319               | -1.151          | -0.54           | 0.4594          | 1.92                  |
| 871 | 1       | -0.7312          | -1.238              | -1.58                  | -0.2506         | 0.09188              | -1.131          | -0.41           | -0.1906         | 0.91                  |
| 872 | 1       | -0.6913          | -2.668              | -2.52                  | -0.9506         | -0.9881              | -1.911          | -0.96           | -0.2306         | 0.7                   |
| 873 | 1       | -1.15            | -2.757              | -2.159                 | -1.519          | -1.267               | -2.819          | -1.049          | 0.000625        | 1.461                 |
| 874 | 1       | -1.271           | -2.728              | -2.45                  | -1.301          | -0.7581              | -1.531          | -0.48           | 0.1994          | 0                     |
| 875 | 1       | -0.9512          | -2.498              | -2.5                   | -1.291          | 0.7019               | -0.7406         | -2.42           | -0.1506         | 1.38                  |
| 876 | 1       | -1.16            | -2.157              | -1.819                 | -0.9994         | 0.3831               | -0.5694         | -0.7788         | 0.000625        | 0.3712                |
| 877 | 1       | -0.6712          | -2.968              | -2.04                  | -0.000625       | 0.1119               | -0.6906         | -0.5            | -0.1306         | 0.38                  |
| 878 | 1       | -0.6531          | -3.07               | -1.612                 | 0.1175          | -2.79E-10            | -0.7625         | -0.7419         | -0.2125         | 0.4781                |
| 879 | 1       | -0.9862          | -2.323              | -2.245                 | -0.6856         | -1.143               | -1.106          |                 | -1.006          | 0.925                 |
| 880 | 1       | -0.7212          | -1.918              | -1.78                  | -0.3606         | 0.3619               | -0.1506         | -0.5            | -0.06063        | 0.35                  |
| 881 | 1       | -0.5506          | -1.867              | -1.469                 | -0.33           | -0.9375              | -0.42           | -0.3794         | 0.01            | 0.2906                |
| 882 | 1       | -0.1             | -1.477              | -0.8988                | -0.03937        | -0.4469              | 0.000625        |                 | 0.000625        | -0.1787               |
| 883 | 1       | -0.72            | -2.007              | -1.429                 | -0.1094         | -1.567               | -0.8494         | -1.079          | 0.000625        | 0.9913                |
| 884 | 1       | -0.2412          | -1.298              | -1.19                  | 0.2594          | -0.2781              | -0.3406         | -0.17           | 0.009375        | 0.96                  |
| 885 | 1       | -2.011           |                     | -2.85                  | -2.551          | -0.1381              | -1.521          | -1.57           | 0.01938         | -0.03                 |
| 886 | 1       | 0.1712           | -1.656              | -1.458                 | -1.188          | -1.086               | -2.258          | -1.428          | -0.9781         | 0.2225                |
| 887 | 1       | -0.4212          | -1.698              | -1.3                   | -0.9406         | -1.108               | -1.131          |                 | -0.1806         |                       |



Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 888 | 1       | -0.5612          | -1.388              | -1.31                   | -0.000625       | -0.4281              | -1.111          | -0.22           | 0.2294          | 0.81                  |
| 889 | 1       | -0.5812          | -2.448              | -2.15                   | -0.4006         | -0.6281              | -1.671          | -0.38           | 0.1994          | 0.87                  |
| 890 | 1       | -1.071           | -1.278              | -2.13                   | -0.7006         | -0.5781              | -1.321          | -1.42           | -0.3506         | 0.28                  |
| 891 | 1       | -0.7112          | -2.128              | -1.54                   | 0.3694          | 0.4819               | -0.1106         | -0.07           | 0.1494          | 0.28                  |
| 892 | 1       | 0.1044           | -1.232              | -1.004                  | -0.155          |                      |                 | -0.1544         | 0.515           | 1.246                 |
| 893 | 1       | -0.1012          | -1.698              | -1.03                   | 0.1594          | -0.6181              | -0.5006         | 0               | 0.6194          | 1.66                  |
| 894 | 1       | -0.7012          | -2.428              | -1.61                   | 0.04938         | -0.1681              | -1.251          |                 |                 | 0                     |
| 895 | 1       | -2.26E-09        | -1.587              | -0.6088                 | -0.5294         | -0.9169              | -1.529          | -0.2588         | 0.02062         | 1.361                 |
| 896 | 1       | -0.9856          | -1.342              | -1.634                  | -0.955          |                      | -1.045          | -0.4544         | 0.005           | 1.546                 |
| 897 | 1       | -0.5             | -1.667              | -0.7488                 | 0.2106          | 1.153                | 0.000625        | -0.6688         | -0.5494         | -1.219                |
| 898 | 1       | -0.67            | -2.747              | -1.909                  | 0.1306          | 1.303                | 0.000625        | -0.3888         | -0.2194         | -1.369                |
| 899 | 1       | -0.1012          | -1.168              | -1.66                   | -0.5006         | -0.06812             | -1.361          | 0.26            | 0.9594          | -0.24                 |
| 900 | 1       | -1.25            | -1.227              | -1.099                  | -0.4794         | 0.3731               | -0.4794         | -0.1588         | 0.000625        | 1.011                 |
| 901 | 1       | 0.2888           | -0.3681             | -0.51                   | -0.09062        | -0.5781              | -1.801          |                 |                 | 0.55                  |
| 902 | 1       | -0.1712          | -1.148              | -1.29                   | 0.1894          | 0.07188              | -0.4106         | -0.23           | 0.3294          | 0.33                  |
| 903 | 1       | -0.1831          | 0                   | 0.1681                  | -0.3025         | -0.76                | -0.7725         | 0.1381          | 0.5775          | -0.08188              |
| 904 | 1       | -0.4112          | 0.03188             | -2.92E-09               | -0.3806         | -1.418               | -0.9806         | -0.4            | -0.1306         | 1.63E-11              |
| 905 | 1       | -0.000625        |                     | -1.349                  | -0.2            | 0.0725               | -0.67           | -0.8694         | 0.01            | 0.000625              |
| 906 | 1       | -0.4112          | -0.7281             | -1.8                    | -0.000625       | -0.1081              | -0.3506         | -0.22           | 0.2694          | 1.96                  |
| 907 | 1       | 0.2988           | -0.05812            | -1.22                   | 0.1194          | -0.9181              | -1.131          | -0.31           | 0.3094          | 0.02                  |
| 908 | 1       | -0.7612          | -1.328              | -1.71                   | -1.121          | -0.7781              | -0.5906         | -0.73           | -0.1706         | 0.26                  |
| 909 | 1       | -0.075           | -0.6019             | -0.7338                 | -0.5544         | -0.9319              | -1.144          |                 | 0.07562         | 0.5862                |
| 910 | 1       | -1.196           | -3.993              | -2.235                  | -1.356          |                      | -1.986          |                 | -0.4656         |                       |
| 911 | 1       | -1.071           | -0.4181             | -0.4                    | -0.8506         | -0.5781              | -0.8606         | -1.01           | -0.4506         | 0.75                  |
| 912 | 1       | -0.1656          |                     | -0.8344                 | -1.395          |                      | -0.955          | 0.1656          | -0.425          |                       |
| 913 | 1       | -0.5112          | -1.708              | -1.57                   | -0.6706         | -0.4981              | -1.251          | 0               | 0.04938         | 1.09                  |
| 914 | 1       | -1.219           | -0.8556             | -0.7975                 | -0.1981         | 1.184                | 0.3419          | 0.1825          | -0.1781         | -0.4775               |
| 915 | 1       | -1.076           |                     | -0.225                  | -1.076          | 0.8969               | 0.2644          |                 |                 | -0.465                |
| 916 | 1       | -0.9912          | -1.748              | -1.05                   | 0.08938         | 0.3919               | 0.2594          | -0.93           | -0.2006         | -0.27                 |
| 917 | 1       | -0.00125         | -0.6181             | -0.19                   | -0.1606         | -0.6681              | 0.2194          | -4.72E-16       | -0.1906         | 1.47                  |
| 918 | 1       | 0.6588           | -2.578              | -0.79                   | -1.311          | 0.1619               | -0.4706         | -0.74           | -1.231          | 0                     |
| 919 | 1       | -0.5088          | -0.7656             | -0.0975                 | 0.03187         | 0.4444               | 0.2919          | -0.6275         | -0.3281         | 0.8125                |
| 920 | 1       | 0.3388           | -0.2081             | -0.35                   | -0.000625       | -0.2181              | -0.3306         | -0.58           | -1.011          | 0.29                  |
| 921 | 1       | -0.7212          | -1.838              | -2.27                   | -0.9006         | -0.2481              | -1.071          | 0.13            | 0.1094          | 1                     |
| 922 | 1       | -0.9             | -1.577              | -2.659                  | -1.039          | -0.8469              | -2.219          |                 | 0.000625        | 0.7512                |
| 923 | 1       | 0.6087           | -0.4681             | -0.32                   | 0.3894          | 0.06188              | -0.5106         | 1.82            | 0.7494          | 0.05                  |
| 924 | 1       | 1.071            | 0.06438             | -0.0075                 | 1.482           | 1.324                | -1.408          | 3.022           | 1.772           |                       |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 925 | 1       | 0.4569           | 0.15                | 0.1181                  | 1.067           | -2.79E-10            | -3.213          | 0.1081          | -0.0225         | 0.9081                |
| 926 | 1       | 1.339            | 0.4119              | 1.53                    | 0.6294          | -0.6681              | -0.5106         | 0.09            | -0.4006         | 0.87                  |
| 927 | 1       | 0.4228           | -0.6441             | -0.01594                | 0.8534          | 0.01594              | -0.3766         | 0.9141          | 1.343           | 0.1841                |
| 928 | 1       | 0.00125          | -1.176              | -0.6575                 | 0.5419          | -0.7056              | -0.2881         | 0.8325          | 0.3819          | 0.2825                |
| 929 | 1       | 1.259            | -0.09812            | 0.77                    | 0.6194          | 0.4719               | 0.7794          | 0               | -0.2106         | 2                     |
| 930 | 1       | 0.3788           | -0.1481             | -0.03                   | 0.02938         | 0.8919               | 0.6594          | 0.09            | 0.4694          | -0.41                 |
| 931 | 1       | 0.05062          | -0.2163             | -0.2481                 | 0.6512          | 1.744                | 1.361           | 0.09187         | 0.3312          | -0.07813              |
| 932 | 1       | -0.4712          | -1.228              | -2.91E-09               | 0.2594          | 0.5119               | -0.2606         | 1.08            | 0.3994          | 0.28                  |
| 933 | 1       | 0.3769           | 0                   | -1.892                  | -2.773          | -0.79                | -0.62           | 0.1681          | -1.683          | 0.6981                |
| 934 | 1       | -0.9013          | -2.148              | -2.55                   | -1.731          | -0.1481              | -1.591          | -0.62           | 0.09937         | 0.74                  |
| 935 | 1       | -2.001           | -1.538              | -2.46                   | -3.201          |                      | -2.741          | 2.49            | 1.649           | 1.43                  |
| 936 | 1       | 0.4788           | -0.3781             | -0.7                    | -0.00625        | 0.7719               | -0.4706         | 2.28            | 1.339           | 1.22                  |
| 937 | 1       | 0.1912           | -0.8856             | -1.028                  | -0.3081         | 0.4244               | -0.5481         | 1.972           | 0.8919          | 1.102                 |
| 938 | 1       | -0.4356          | 0.2175              | -0.01438                | -0.335          | 0.5275               | 0.015           |                 | -3.695          | -0.9444               |
| 939 | 1       | 0.03438          | -0.3125             | 0.08562                 | -0.665          | 0.1975               | 0.025           | -1.964          | -2.035          | -0.02437              |
| 940 | 1       | -0.02062         | -1.697              | -0.9094                 | -0.64           | 0.6925               | -0.04           |                 | 2.29            | 0.3206                |
| 941 | 1       | -0.9306          | -1.117              | -1.219                  | -0.38           | 0.3625               | 0.2             | 1.581           | 1.62            |                       |
| 942 | 1       | -0.2131          | -1.03               | -0.6119                 | 0.2375          | -2.79E-10            | 0.0175          |                 | -0.0125         | -0.4619               |
| 943 | 1       | -0.1922          | -1.229              | -0.9209                 | -0.3716         | 0.07094              |                 | 0.09906         | -0.3016         | 0.2291                |
| 944 | 1       | 0.4487           | -0.2681             | 0.19                    | -0.2006         | -0.2181              | -0.1506         | -0.02           | -0.000625       | 0.02                  |
| 945 | 1       | -0.47            | 0.3731              | 0.01125                 | 0.07063         | -0.3369              | 0.7206          | -0.5788         | 0.000625        | 0.2713                |
| 946 | 1       | -0.6912          | -0.6381             | -0.11                   | -0.7706         | -0.1381              | -0.3206         | 0.44            | 0.02937         | 0.04                  |
| 947 | 1       | -0.1912          | 0.7019              | -0.31                   | -0.00625        | -0.4381              |                 |                 |                 | 0.63                  |
| 948 | 1       | -0.3472          | -1.204              | -0.8959                 | -0.1566         | 0.06594              | -1.127          |                 | -0.2766         | 0.6041                |
| 949 | 1       | -0.2312          | -0.9781             | 0.1                     | -1.841          | -1.858               | -1.381          |                 | -2.051          |                       |
| 950 | 1       | 0.1088           | -0.2981             | -0.51                   | -1.621          | -1.638               | -1.481          | -1.53           | -1.831          | 0.37                  |
| 951 | 1       | -2.26E-09        | -0.1669             | -0.07875                | -0.2594         | -0.09687             | 0.06062         | -0.6188         | -0.2394         | 0.05125               |
| 952 | 1       | 0.7988           | 0.2119              | 0.93                    | 1.099           | 1.452                | 0.9394          | -1.08           | -1.631          | 0.03                  |
| 953 | 1       | -2.26E-09        | 1.223               | 0.9312                  | 1.191           | -0.01687             | 2.761           | -0.4088         | -0.2294         | 0.6912                |
| 954 | 1       | 0.5169           | 0                   | 0.1281                  | -0.2825         | 0.72                 | -0.8525         | -0.1219         | -0.3725         | -0.1219               |
| 955 | 1       | 1.059            |                     | 0.27                    | -0.6306         | 0.3719               | -0.1906         | -1.92           | 0.3194          | -0.82                 |
| 956 | 1       | -0.1312          | -0.5081             | 0.03                    | -0.09062        | 0.2119               | -1.701          | -0.03           | 0.3594          | 0.4                   |
| 957 | 1       | -0.9131          | 0.33                | -0.3719                 | -0.7925         | -2.79E-10            | -0.8025         |                 |                 | 1.258                 |
| 958 | 1       | 0.03875          | 1.462               | -0.78                   | -0.7206         | 0.5519               | -1.431          | 1               | 0.1194          | 0                     |
| 959 | 1       | -0.2112          | 0.06188             | -0.02                   | 0.5394          | 1.692                |                 | 0.57            | 1.449           |                       |
| 960 | 1       | -0.4112          |                     | -0.23                   |                 | 0.6419               | -0.3006         |                 |                 |                       |
| 961 | 1       | -0.2631          | 1.22                | 0.8381                  | -0.7825         | -2.79E-10            | 0.1575          |                 |                 |                       |

Table 2

|     | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|-----|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 962 | 1       | 0.5438           | 0.2969              | 0.505                   | 0.5244          | -0.4981              | 0.9794          | -1.51           | -1.511          | -1.39                 |
| 963 | 1       | 1.149            | 0.4019              | 1.59                    | 1.259           | -0.1981              | 0.8294          | -0.07           | -0.8506         | 0.43                  |
| 964 | 1       | 0.08875          | 0.3969              | -0.075                  | -0.05563        |                      |                 |                 |                 |                       |
| 965 | 1       | 0.2237           | 0.3969              | -0.075                  | -0.05563        |                      |                 |                 |                 |                       |
| 966 | 1       | 0.2888           | -0.1981             | -0.8                    | -1.061          | -0.4981              | -0.9206         |                 | -1.851          | 0.35                  |
| 967 | 1       | -2.26E-09        | -1.167              | -1.509                  | -2.029          |                      |                 |                 |                 |                       |
| 968 | 1       | 0.4688           | -0.07812            | -0.74                   | -1.681          | -1.698               | -1.121          |                 |                 | 0.29                  |
| 969 | 1       | -0.5312          | 0.03188             | 0.01                    | -1.151          | -0.5781              | -0.7906         | -1.64           | -1.521          | 1                     |
| 970 | 1       | -0.03938         | -0.7963             | -1.298                  | -1.239          | 1.444                | -0.7788         | -1.148          | -0.4488         | 1.932                 |
| 971 | 1       | 0.2688           | 0.8219              | 0.68                    | -0.8706         | -0.2581              | -0.5106         | 0               | -0.3106         | 0.05                  |
| 972 | 1       | -1.271           |                     | 1.681                   | -2.42           |                      | 0.04            | -0.5894         |                 |                       |
| 973 | 1       | -0.6712          |                     | -0.76                   | -1.291          | 1.132                | -1.491          | 0               |                 | -0.1                  |
| 974 | 1       | -0.1644          | 0.5787              | -0.2531                 | 0.2362          |                      | -0.03375        | -0.3831         | -0.7038         | 0.3869                |
| 975 | 1       | -0.02062         |                     | -0.06938                | 0.06            | -0.6975              | -0.76           | 0.1406          | 0.31            | -0.02062              |
| 976 | 1       | -0.08125         | -0.2181             | -0.07                   | -0.4806         | 0.5619               |                 |                 | -0.2906         | 2.23                  |
| 977 | 1       | -0.6312          | -0.6581             | -0.98                   | -0.4906         | -0.8481              | -0.9706         | -0.26           | 0.1994          | 0.44                  |
| 978 | 1       | -0.1762          |                     | 0.095                   |                 |                      | 0.7844          | -0.785          |                 | 0.805                 |
| 979 | 1       | 0.03781          | 0.0009375           | -0.0009375              | -0.1216         |                      | -0.4716         |                 | -1.542          | 0.7691                |
| 980 | 1       | 0.09875          | 0.5419              | -0.07                   | -0.03062        |                      | 0.2294          | -0.88           |                 | -0.28                 |
| 981 | 1       | -0.2112          | -0.3781             | -0.78                   | -0.9606         | 0.8419               | -0.6606         | 0               | -0.3706         | 0.9                   |
| 982 | 1       | -0.9962          | 0.4269              | -0.425                  | -1.436          | 0.9269               | -0.2256         | 1.235           | -1.596          | -0.435                |
| 983 | 1       | 0.2038           | -1.393              | -0.365                  | 0.03438         | -0.3531              | -0.2156         | 1.515           | 0.8044          | 0.545                 |
| 984 | 1       | -0.6731          | 0                   | -1.182                  | -0.6125         | -0.79                | -1.173          | 0.2681          | 0.5175          | 1.738                 |
| 985 | 1       | -0.1012          | -0.5981             | -0.81                   | -0.000625       | -0.09812             | -0.6106         | 1.22            | 1.369           | 2.86                  |
| 986 | 1       | -0.4662          | -1.633              | 0.355                   | -0.4256         | -1.323               | -2.166          | 1.595           | 2.754           | -0.185                |
| 987 | 1       | 0.00875          |                     | -2.91E-09               | -0.08062        | -1.738               | -0.4106         |                 | 3.889           | -0.17                 |
| 988 | 1       | -0.3612          | -0.7381             | -1.13                   | -0.2206         | -0.4081              | -1.461          | 1.76            | 1.049           | 1.14                  |
| 989 | 1       | -0.1012          | -0.8781             | -0.8                    | -0.05062        | 0.2719               | -0.1706         | 1.67            | 1.969           | 2.23                  |
| 990 | 1       | -2.26E-09        | -0.7069             | -0.8188                 | -0.05938        | 0.3131               | -0.9194         | -0.1488         | -0.1594         | 1.201                 |
| 991 | 1       | -2.26E-09        | -1.207              | -0.7188                 | -0.3694         | 0.2631               | -0.9794         | -0.3088         | -0.3394         | 1.021                 |
| 992 | 1       | -1.111           | -1.208              | -0.31                   | -1.531          | -1.028               | -1.691          | 0.36            | 0.5294          | 1.44                  |
| 993 | 1       | -0.9206          |                     | -0.4894                 | -0.75           | 0.7825               | -0.44           | -1.339          | 0.07            |                       |
| 994 | 1       | -0.8612          | 0.06188             | -2.24                   | -0.000625       | 2.992                | 1.549           |                 | -1.971          | 5.19                  |
| 995 | 1       | -0.1563          | -0.3231             | -0.025                  | -0.03563        | 0.3469               | 0.5344          |                 | -0.7556         | -0.135                |
| 996 | 1       | -1.063           | 0                   | -1.152                  | -1.293          | 0.57                 | -0.3325         | -0.7319         | -0.7025         | -0.3819               |
| 997 | 1       | 0.7488           | 1.192               | 0.79                    | -0.02062        | -2.098               | -1.701          | -0.03           | -0.3306         | 0.5                   |
| 998 | 1       | 0.2878           | 0.1609              | 1.199                   | -0.2216         | -0.4191              | -0.1716         |                 | -0.4416         |                       |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 999  | 1       | 0.2188           | 0.6019              | 0.17                    | -0.5206         | -1.098               | -0.6306         |                 | -1.371          | -1.75                 |
| 1000 | 1       | -0.2712          | 0.7519              | 0.32                    | -0.1606         | -0.9981              | -0.8706         | 2.23            | 1.109           | -0.29                 |
| 1001 | 1       | -0.4272          | -0.1141             | -1.036                  | -0.7766         | -1.474               | -0.4666         | 2.094           | -0.5666         | 0.7041                |
| 1002 | 1       | -1.091           |                     | -0.92                   |                 |                      |                 | 2.81            | 0.6394          |                       |
| 1003 | 1       | -0.1813          | -0.1481             | -1.49                   | -2.011          |                      |                 | 6.16            | 3.549           |                       |
| 1004 | 1       | -0.2112          | -0.2781             | 0.54                    | -1.721          | -1.058               | -0.9006         | 5.2             | 2.589           | -0.63                 |
| 1005 | 1       | 0.1287           |                     | -0.03                   | -0.3306         | -1.438               | 0.5694          |                 |                 | -0.33                 |
| 1006 | 1       | 0.1687           | -0.5181             | -1.05                   | 0.6594          | -0.4481              |                 |                 | 1.149           | -0.54                 |
| 1007 | 1       | -0.1106          |                     | 1.711                   | -0.53           |                      | -0.05           |                 |                 |                       |
| 1008 | 1       | 0.085            |                     | 0.05625                 | -1.144          |                      |                 | 0.2962          | -1.554          | -1.134                |
| 1009 | 1       | 0.1144           | 0.6575              | 0.9456                  | -0.715          | 0.6775               | -1.055          | 0.4056          | 0.105           | -0.6844               |
| 1010 | 1       | -0.1262          | 1.757               | 0.225                   |                 | -0.2631              |                 |                 | -0.7956         |                       |
| 1011 | 1       | -0.2913          | 1.672               | 0.82                    | -1.671          | 0.7219               | -0.6206         | 0.1             |                 | -0.58                 |
| 1012 | 1       | -0.4112          | 0.2819              | -1.1                    | -0.9106         |                      | -1.041          |                 |                 |                       |
| 1013 | 1       | -0.2106          | 0.1725              | -0.5694                 | -0.24           | 0.9625               | -0.27           | 2.151           | 0.08            | 1.001                 |
| 1014 | 1       | -0.1612          | 0.8219              | -0.62                   | -0.7806         | 0.7019               | 2.299           | -1.69           | 1.799           | -0.95                 |
| 1015 | 1       | -0.4462          | -0.2331             | 0.225                   | 0.004375        | 1.227                | -1.076          | -0.385          | -0.7856         | -0.005                |
| 1016 | 1       | -0.2663          | -0.4331             | 1.495                   | -1.196          | 0.2269               | -0.2756         | -0.445          | -1.786          |                       |
| 1017 | 1       | 0.07875          | -0.8681             | -0.01                   | 0.009375        | -0.6781              | -0.4606         |                 | -0.4506         |                       |
| 1018 | 1       | -0.7712          | -0.6881             | -1.04                   | -1.041          | -0.8181              | -1.281          | 0.05            | 0.09938         | 0.34                  |
| 1019 | 1       | 0.009375         | -1.477              | -1.399                  | -1.34           | -0.0375              | -1.2            |                 | -1.13           | 0.07063               |
| 1020 | 1       | 0.1594           | -0.2275             | -0.7294                 | -0.67           | 0.7725               | 0.05            |                 | -1.46           | -0.9994               |
| 1021 | 1       | 0.00875          | -0.3981             | 0.14                    | -0.3606         | 1.002                | 0.7294          | -0.47           | -0.3506         | 0.07                  |
| 1022 | 1       | -0.5131          | 0                   | -0.9219                 | -1.543          |                      |                 |                 |                 | -0.4519               |
| 1023 | 1       | -0.1512          | -1.318              | -1.82                   | -2.761          | -0.7781              | -2.621          |                 |                 | -0.35                 |
| 1024 | 1       | 0.2187           | 0.1519              | -0.19                   | -1.251          | 0.1719               | -0.5706         |                 | -0.04063        | -0.23                 |
| 1025 | 1       | 0.9387           | -0.04813            | 0.01                    | -0.8306         | 0.3219               | -0.6906         | -1.37           | -1.421          | 0.48                  |
| 1026 | 1       | -0.3588          | 0.9144              | -2.108                  | -1.848          | 0.7444               | -2.388          |                 |                 |                       |
| 1027 | 1       | -0.3422          | 0.03094             | -0.7209                 | -0.03156        | -1.149               | -0.9916         | -1.741          |                 |                       |
| 1028 | 1       | -0.4213          | -0.01813            | 0.37                    | -1.291          | -0.7881              | -1.051          | -0.42           | 1.439           | 0.78                  |
| 1029 | 1       | -0.3112          | 1.752               | -0.1                    | -1.241          | 1.292                | -0.2006         | -0.95           | -2.251          | -0.95                 |
| 1030 | 1       | 0.1078           | -1.419              | 0.2991                  | -0.1816         | 0.0009375            | -0.7816         |                 | 0.2284          |                       |
| 1031 | 1       | -0.5612          | 0.6219              |                         | -0.1506         | 0.5619               | -0.4506         | -1.21           | -1.031          | -0.77                 |
| 1032 | 1       | -2.73            |                     | -1.919                  |                 |                      | 1.611           |                 | 0.000625        |                       |
| 1033 | 1       | -0.1672          | -0.1841             | -1.006                  | -0.4266         | 0.03594              | -0.3466         | -2.856          | -0.2166         | -0.05594              |
| 1034 | 1       | 0.4088           | -1.078              | -2.91E-09               | -0.1206         | -0.3381              | -1.361          |                 |                 | 1.01                  |
| 1035 | 1       | 0.2588           | 1.282               | -0.1                    | -0.6206         | 1.362                | 2.369           | -3.53           | -0.09063        | -2.21                 |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY3X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1036 | 1       | -2.881           |                     |                        | 1.289           | -0.1181              |                 |                 |                 |                       |
| 1037 | 1       | -1.761           |                     | -3.85                  | 3.209           | 1.742                | -2.651          | -2.7            |                 | -1.7                  |
| 1038 | 1       | -1.282           | 0.01156             | -0.5903                | 0.3591          | -0.01844             | -0.01094        |                 | -2.691          | -2.03                 |
| 1039 | 1       | -2.26E-09        |                     | -0.00875               | -0.3094         | 1.143                |                 |                 |                 |                       |
| 1040 | 1       | -2.26E-09        | 1.923               | -1.239                 | -0.1094         | -1.047               | 1.181           |                 |                 | -0.4588               |
| 1041 | 1       |                  | 1.252               | 0.37                   | 0.02938         | -0.4981              | 0.4494          |                 | -1.511          |                       |
| 1042 | 1       | -1.512           | 0.3709              | -0.4509                | -1.542          | 0.2009               | -0.6416         | 0.2391          | 0.2484          | -0.2009               |
| 1043 | 1       | 0.06937          | -0.9975             | -0.5294                | -0.11           |                      | -1.4            | 0.4406          | 0.96            | 2.811                 |
| 1044 | 1       | -1.092           | -1.359              | -1.721                 | -1.042          | -0.05906             | -0.9816         | 0.5491          | 0.1284          | 1.249                 |
| 1045 | 1       | -0.004375        | 0.6288              | -1.093                 | -0.7138         | -1.471               | -1.894          | 4.277           | 4.436           | 4.067                 |
| 1046 | 1       | -0.5912          |                     | -1.22                  | 0.01938         | -0.9381              | -1.901          |                 | -1.831          | 4.1                   |
| 1047 | 1       | 0.3538           | 0.2669              | -0.685                 | -0.03562        | -0.8631              | -1.966          |                 | 0.2044          | 2.805                 |
| 1048 | 1       | -0.03562         | -0.3225             | -1.504                 | 0.035           | 2.188                | -1.305          | 4.446           | 2.905           | 1.026                 |
| 1049 | 1       | -0.2412          |                     | -1.06                  | -1.171          | -0.7281              | -0.5706         | 1.05            | 1.499           | 1.89                  |
| 1050 | 1       | -2.26E-09        | 1.223               | -0.8688                | -0.2294         | -0.6069              | -1.669          | 1.951           | 2.161           | 2.681                 |
| 1051 | 1       | -0.1822          | 0.07094             | -0.8809                | -1.762          |                      | -1.202          |                 |                 |                       |
| 1052 | 1       | -0.4306          |                     | -0.6394                | -1.3            | 0.4925               | -0.21           | 1.931           | 3.68            |                       |
| 1053 | 1       | -2.26E-09        | 1.393               | -1.409                 | -1.129          | -1.367               | -0.3294         | 3.411           | 3.881           |                       |
| 1054 | 1       | -0.3912          | 0.2419              | 0.58                   | -1.621          | -1.058               | -1.221          | 2.74            | 2.939           | -0.95                 |
| 1055 | 1       | 0.8269           | 0                   | -0.3319                | -0.2025         | -1.46                | -1.503          | 3.568           | 2.047           | -1.352                |
| 1056 | 1       | -0.9112          | 1.712               | -2.91E-09              | -1.841          | -0.1981              | -0.6006         | 3.3             | 2.059           |                       |
| 1057 | 1       | -0.7812          | 1.092               | -0.48                  | -2.811          | 0.3419               |                 |                 | 1.299           | -1.14                 |
| 1058 | 1       | -0.1562          |                     | -0.505                 | -0.5956         |                      |                 |                 |                 |                       |
| 1059 | 1       | -0.2212          |                     | -0.97                  | -1.391          |                      |                 |                 | -3.501          | -1.3                  |
| 1060 | 1       | -0.3412          | 2.452               | 0.15                   |                 | 1.372                | -0.09063        | -0.6            | -0.1606         | -0.8                  |
| 1061 | 1       | -1.241           | 1.392               | -1.15                  | -1.271          |                      |                 |                 |                 | 0.1                   |
| 1062 | 1       | -0.5156          | 0.7575              | -0.08438               | -0.345          | 0.6775               | 0.035           |                 | -1.135          | -0.9344               |
| 1063 | 1       | 0.1238           | -0.4531             | 0.585                  | -0.5856         | 0.4469               | 0.1144          | 0.065           | -1.276          | -0.075                |
| 1064 | 1       | 0.3888           | -1.018              | -1.36                  | -0.4206         | 0.1819               | -1.741          | -0.33           | -0.8706         | -0.62                 |
| 1065 | 1       | 0.1669           | 0                   | -0.2419                | -0.9625         | 1.39                 | 0.0775          |                 | -0.5525         |                       |
| 1066 | 1       | -0.6062          | 0.8569              | 0.305                  | -0.9556         | 1.197                | -1.016          | -0.165          | -0.9456         | -0.545                |
| 1067 | 1       | 0.02375          | -0.4131             | -0.155                 | -1.376          | 0.1969               | -1.716          |                 | -1.646          | 0.155                 |
| 1068 | 1       | -0.5313          | 2.632               | -0.33                  | -1.411          | 0.8319               |                 | -3.64           | -2.521          | 1.16                  |
| 1069 | 1       | -0.3731          | 0.91                | -0.04188               | -0.8425         | -2.79E-10            | -0.8425         | -1.212          | -1.093          | 1.308                 |
| 1070 | 1       | -0.9412          | 0.5119              | -1.03                  | -1.671          | 1.212                | -1.361          | 0               | -1.291          | -0.78                 |
| 1071 | 1       | -0.6962          |                     | -0.435                 |                 | -0.5231              | -0.3656         | -0.635          | -0.9856         |                       |
| 1072 | 1       | -0.4412          | 2.492               |                        | -0.7106         | -1.018               | -3.031          |                 |                 |                       |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1073 | 1       | -1.951           |                     |                         | -2.761          |                      |                 |                 | 1.369           |                       |
| 1074 | 1       | -0.6512          | -2.098              | -1.82                   | -0.7606         | -0.4581              | -1.041          | 2.75            | 3.499           | 0.08                  |
| 1075 | 1       | -0.4312          | -0.5481             | 0.01                    | -0.6306         | -0.7681              | -0.4306         | 0.73            | 1.539           | -0.66                 |
| 1076 | 1       | -0.4313          |                     | 0.69                    | -1.031          | -0.4481              | -2.361          |                 |                 | -0.37                 |
| 1077 | 1       | 0.1044           | 2.378               | -0.1044                 | -1.185          | 0.4775               | -0.365          | -0.8344         | -1.715          | -0.4144               |
| 1078 | 1       | -0.5812          | -1.128              | -0.85                   | -0.7906         | 1.142                | -0.4706         | -0.9            | -0.6406         | 0.1                   |
| 1079 | 1       | 2.24E-09         | 0.2831              | -0.4188                 | -0.2594         | -0.5369              | -0.1694         |                 | 0.000625        | 1.601                 |
| 1080 | 1       | -0.6262          | 0.8469              | 0.575                   | -0.8756         | -0.6731              | -0.2256         |                 |                 |                       |
| 1081 | 1       | -0.3163          | 0.4569              | -0.345                  | -0.5256         | -0.6831              | -0.9456         |                 | 2.964           | -0.375                |
| 1082 | 1       | -0.7912          | -1.038              | -1.14                   | -0.01062        | -0.7281              | -0.1706         | 1.65            | 1.359           | 0.14                  |
| 1083 | 1       | -0.8912          | -0.8281             | -1.5                    | 1.389           | -0.06812             | -0.9806         | -1.18           | -1.151          | 0                     |
| 1084 | 1       | -0.5012          | 1.152               | -1.12                   | -0.7706         | -0.3481              | -0.7706         | 0.99            |                 | 0.32                  |
| 1085 | 1       | -1.011           | -1.278              | -0.78                   | -1.341          | -1.358               | -0.8206         | -1.63           | 0.9694          | 0.75                  |
| 1086 | 1       | -1.551           |                     | -1.06                   | -2.141          | 0.3619               | 0.1394          | 0               | -0.1306         | 0.42                  |
| 1087 | 1       | 0.02844          | 0.01156             | -0.3803                 | 1.319           | -0.3184              | -0.05094        |                 | -0.01094        | -0.3203               |
| 1088 | 1       | 0.4294           |                     |                         | 0.27            |                      |                 |                 | -0.15           | -0.6094               |
| 1089 | 1       | -0.3831          | 0                   | 0.2981                  | -0.3125         | -0.18                | -0.1725         |                 |                 | 0.6281                |
| 1090 | 1       | 0.07             | 0.003125            | 0.3612                  | -0.7694         | 0.2031               | 0.000625        |                 | 0.5906          | -0.4987               |
| 1091 | 1       | -2.26E-09        |                     | 0.1612                  | -1.179          |                      |                 |                 |                 |                       |
| 1092 | 1       | -0.5672          | 0.3159              | 1.064                   | -0.3266         | -0.1441              | -0.9566         |                 | -0.5166         |                       |
| 1093 | 1       | 0.2987           |                     | 0.42                    | -1.191          |                      | 0.3194          |                 |                 | -0.9                  |
| 1094 | 1       | 0.4188           | -1.338              | -1.84                   | -2.781          | -0.7981              | -2.641          | 0.11            | 3.229           | -0.11                 |
| 1095 | 1       | 0.1656           | -1.421              | -1.343                  | -2.864          |                      | -2.724          | 0.2269          | 3.386           | -0.4531               |
| 1096 | 1       | 0.5037           | 0.6769              | -1.025                  | -1.766          | -0.9831              | -1.306          | -0.215          | 2.224           | -0.875                |
| 1097 | 1       | -0.1612          | -0.9481             | -0.13                   | -0.5406         | -2.408               | -1.251          | 0.13            | 1.539           | 0.38                  |
| 1098 | 1       | 0.2038           | 1.357               | -0.565                  | -0.8256         | 0.9569               | -1.106          | -0.735          | -2.616          | -0.155                |
| 1099 | 1       | -0.1962          |                     | -0.425                  |                 |                      | -1.546          |                 | -2.476          | -0.275                |
| 1100 | 1       | -0.2513          |                     | 0.9                     | -1.421          | 1.092                |                 |                 |                 | -0.48                 |
| 1101 | 1       | -0.3163          | -0.1931             | -0.865                  | -0.3156         | 0.2369               | 0.2844          |                 | -0.7456         | 0.365                 |
| 1102 | 1       | -1.571           | -1.398              | -1                      | -2.141          | 1.122                | -2.701          | 1.95            | 0.2194          | 3.14                  |
| 1103 | 1       | -0.49            |                     | -0.06875                | -0.9794         | -0.1969              | 0.000625        |                 |                 | 3.251                 |
| 1104 | 1       | -2.26E-09        | 0.2831              | -0.2488                 | -2.349          |                      |                 |                 | 1.981           | -0.5488               |
| 1105 | 1       | 0.3178           | -0.009062           | 0.5691                  | -0.6316         |                      | -0.3516         |                 |                 | -1.061                |
| 1106 | 1       | -0.4612          | -1.028              | -0.86                   | 0.6894          | 1.742                | 1.879           | 0.16            | -0.3906         | -0.11                 |
| 1107 | 1       | 1.043            | -0.2141             | -0.01594                | 1.493           | -0.01406             | 2.233           | 0.9641          | 0.3234          | -0.2859               |
| 1108 | 1       | -0.5412          |                     | -0.03                   | 0.3894          | 1.172                | 0.1694          | -1.62           | -0.5506         | -0.24                 |
| 1109 | 1       | 0.3488           | -0.3281             | -0.19                   | 0.7794          | 0.2819               | 0.01937         |                 |                 | -0.32                 |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1110 | 1       | -2.24E-09        | 0.7731              | -0.4488                 | 0.4506          | -0.3369              | -0.1094         | -0.2288         | -0.01938        | 0.8012                |
| 1111 | 1       | 0.45             | -0.2669             | 0.1712                  | 0.9806          | 0.3331               | 0.03062         | -0.1788         | 0.000625        | 1.001                 |
| 1112 | 1       | -0.4862          | -0.1231             | -1.375                  | 0.6244          | -0.1431              | -1.456          | 0.445           | 0.1844          |                       |
| 1113 | 1       | 0.3388           | -0.6881             | -0.78                   | 0.4594          | -0.7681              | -0.4106         |                 | -0.04062        | -0.14                 |
| 1114 | 1       | 0.00875          | -0.4681             | -0.79                   | 0.2594          | -0.3881              | -0.5106         | 0.32            | -0.1006         | -0.4                  |
| 1115 | 1       | 0.4687           | -0.4181             | -0.27                   | 0.2394          | -0.5281              | -0.6706         | -0.19           | 0.3194          | 0.14                  |
| 1116 | 1       | -0.3513          | -1.208              | -0.72                   | 0.2694          | -0.7681              | 0.2494          | 0.14            | 0.2994          | -0.31                 |
| 1117 | 1       | -0.05125         | -0.6181             | -0.54                   | 0.5494          | -0.8281              | 0.6094          | 0.04            | 0.2594          | 0.09                  |
| 1118 | 1       | 0.4888           |                     | 0.37                    | 0.02938         | -0.1581              | -0.5406         |                 |                 | -0.47                 |
| 1119 | 1       | 0.6812           | 0.9744              | 0.6825                  | 1.062           | 0.1944               | -0.1181         | 0.9425          | -0.4181         | -1.398                |
| 1120 | 1       | 0.5669           | 0                   | 0.1881                  | 1.317           | 0.14                 | 0.9775          | 0.7181          | 0.6875          | 0.7181                |
| 1121 | 1       | 0.01875          | -0.5981             | -0.19                   | 0.1994          | 0.1219               | 0.5994          | 0.22            | -0.2106         | 0.34                  |
| 1122 | 1       | -0.2312          | -0.2781             |                         |                 | 0.7619               |                 |                 |                 |                       |
| 1123 | 1       | -0.1006          | -0.5475             | -0.5594                 | 0.99            | 0.5825               | -0.48           |                 | -0.43           | -0.7994               |
| 1124 | 1       | -0.1088          | -0.5156             | -0.1675                 | 1.522           | 0.1444               | 0.01187         | 2.052           | 0.8819          | -0.8075               |
| 1125 | 1       | -0.3912          | -1.408              | -1.64                   | 0.4694          | -0.7181              | -0.06063        | -0.02           | 0.1694          | -0.13                 |
| 1126 | 1       | -0.3012          | -0.8781             | -0.83                   | -0.09062        | 0.001875             | -1.371          | 0.48            | 0.02937         | 0                     |
| 1127 | 1       | 0.1088           | -0.3181             | -0.01                   | 0.9794          | 0.1719               | 0.1394          | 0               | 0.4894          | 0.8                   |
| 1128 | 1       | -0.05125         | -0.3881             | -0.16                   | 1.889           | 0.7919               | 0.05937         | 1.17            | 0.6194          | 0.18                  |
| 1129 | 1       | 0.1194           | -0.3275             | -0.2994                 | 0.35            |                      | 0.05            | -0.1294         | -0.19           | 0.9106                |
| 1130 | 1       | -0.21            | -0.9669             | -0.9288                 | 0.6706          | 0.09313              | -0.06938        | 0.3512          | 0.000625        | -0.9487               |
| 1131 | 1       | -0.3012          | -1.468              | -1.03                   | -0.4506         | -0.7481              | -1.311          | 0.09            | 0.3194          | 1.32                  |
| 1132 | 1       | -1.066           | -2.083              | -2.005                  | 0.02438         |                      | -1.576          | -0.355          | -0.5056         | 0.015                 |
| 1133 | 1       | -0.6662          | -2.483              | -1.245                  | 0.1444          | -0.3131              |                 | 0.685           | 0.4044          | -0.975                |
| 1134 | 1       | -1.32            | -1.557              | -1.579                  | 0.1006          | -0.3369              | 0.000625        | 0.5512          | 0.2706          | -1.169                |
| 1135 | 1       | -0.2712          | -0.8981             | -1.12                   | 0.06938         | 0.1219               | -0.1306         | -0.15           | -0.2006         | 0.12                  |
| 1136 | 1       | -0.4612          | -1.168              | -0.94                   | -0.000625       | -0.8681              | -0.2406         |                 | -0.1306         | -0.74                 |
| 1137 | 1       | -1.071           | -1.678              | -1.18                   | -0.000625       | -1.938               | -0.5306         | 0.19            | 0.2294          | -0.02                 |
| 1138 | 1       | -0.4112          | -1.308              | -0.99                   | 0.4194          | -0.5081              | -1.431          | -0.09           | 0.09938         | 0.21                  |
| 1139 | 1       | -0.1013          | -0.5381             | -0.79                   | 0.5294          | -0.4681              | -0.4906         | 0.92            | 0.6094          | 0.29                  |
| 1140 | 1       | 0.08875          | -1.348              | -0.98                   | 0.5194          | -0.2181              | -0.3206         | 0.76            | 0.5894          | 0.33                  |
| 1141 | 1       | -0.4506          | -0.3475             | -1.009                  | 0.22            | -0.2275              | 0.04            | -0.4994         | 0.06            | 0.2006                |
| 1142 | 1       | -0.9931          | -1.35               | -1.342                  | 0.5075          | -2.79E-10            | -0.4125         | -0.2019         | 0.2575          | 0.8181                |
| 1143 | 1       | -0.4612          | -1.088              | -0.75                   | 0.2694          | -1.468               | -0.7606         | 0.04            | -0.1806         | 0.19                  |
| 1144 | 1       | -0.1812          | -0.8381             | -0.86                   | 0.4794          | -1.398               | -0.06062        | 0               | -0.2706         | 0.46                  |
| 1145 | 1       | -0.64            | -1.137              | -1.609                  | -0.1594         | -0.4169              | -0.7394         | -0.2488         | 0.000625        | 0.8113                |
| 1146 | 1       | -0.9706          | -1.137              | -1.209                  | 0.56            | -0.6275              | -0.7            | 0.2506          | 0.08            | -0.08937              |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC-INFA<br>ARRY4X | HMEC-C-CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1147 | 1       | -0.3962          | -0.9231             | -0.615                 | -0.1656         | 0.2769               | -0.1556         |                 | -0.08563        | -0.115                |
| 1148 | 1       | -0.2512          | -1.488              | -1.27                  | 0.009375        | 0.3419               | -0.4306         | 0.18            | 0.5094          | -0.03                 |
| 1149 | 1       | -1.019           | -1.616              | -1.248                 | 0.8119          | -0.1356              | -0.05813        | 0.1425          | -0.1281         | 0.7425                |
| 1150 | 1       | 0.4238           | -0.2631             | -0.285                 | 0.09438         | -0.4131              | -0.3056         | 0.105           | -0.6056         |                       |
| 1151 | 1       | 0.5788           | 0.4819              | 0.41                   | 0.5994          | 0.8319               | -0.07062        | -0.49           | -1.161          | -0.77                 |
| 1152 | 1       | -0.2912          | -1.358              | -0.79                  | 0.2194          | 0.2719               | 0.3194          | -0.46           | -0.4406         | 0.23                  |
| 1153 | 1       | 0.4888           | -0.6881             | -0.34                  | 0.8994          | 1.002                | 1.309           | -0.61           | -0.8506         | -1.77                 |
| 1154 | 1       | -0.12            | 0.003125            | -0.5688                | 0.3906          | -1.097               | -0.4294         | 0.4212          | 0.000625        | 1.101                 |
| 1155 | 1       | -0.06125         | -0.8081             | -0.27                  | -0.5006         | -0.6881              | -0.7306         | -0.78           | -0.8806         | 0.66                  |
| 1156 | 1       | -0.2712          | -0.04812            | -2.91E-09              | -0.2706         | -0.4181              | -0.9006         | -0.12           | 2.199           | 0.71                  |
| 1157 | 1       | -0.07125         | -0.4681             | -0.28                  | -0.2606         | -0.02812             | -0.2606         | -0.04           | 2.029           | 0.93                  |
| 1158 | 1       | -0.1113          | -0.7581             | -0.4                   | -0.5006         | 0.2619               | -0.1206         | -1.01           | 1.289           | 0.88                  |
| 1159 | 1       | -0.02063         | -0.8875             | -0.9294                | 0.85            | 0.2425               | 0.49            | 1.391           | -2.79           |                       |
| 1160 | 1       | -0.09125         | -0.5181             | -0.51                  | 0.5994          | -0.3281              | 0.2394          | 0.22            | 0.2194          | -0.05                 |
| 1161 | 1       | 0.4544           | -1.392              | -1.134                 | 0.795           |                      | 0.195           | 0.1156          | -0.005          | -0.8544               |
| 1162 | 1       | -0.003125        | 0                   | -0.2419                | 0.0775          | -0.31                | 1.347           | -0.3119         | -0.9125         | 0.7981                |
| 1163 | 1       | 0.4087           | -0.2681             | 0.49                   | 0.6194          | 0.1919               | 0.7094          |                 | -1.521          | -1.08                 |
| 1164 | 1       | -0.3013          | -0.4581             | -1.28                  | -0.7606         | 0.4819               | 0.5794          |                 |                 | 0.56                  |
| 1165 | 1       |                  | 1.102               | -1.02                  |                 | -0.1581              | -0.09063        |                 | -0.1706         | 0.12                  |
| 1166 | 1       | 0.1478           | 0.9709              | -0.05094               | 0.008437        | -0.009062            | -0.2416         | 1.869           | 1.918           | -1.371                |
| 1167 | 1       | -0.5031          | -1.12               | -0.8919                |                 | -2.79E-10            | -1.183          | -0.3119         | -0.4925         | 1.028                 |
| 1168 | 1       | -0.6212          | -0.6381             | -1.06                  | 0.1694          | -0.3481              | -0.9506         | -0.09           | -0.5106         | 0.97                  |
| 1169 | 1       | 0.29             | -0.5269             | 0.3812                 | 1.311           | -0.2269              | -0.06938        | 0.8412          | 0.000625        |                       |
| 1170 | 1       | -0.2712          | -0.7781             | -1.19                  | -0.03062        | -0.9781              | -0.000625       | 0               | 0.4494          | 0.11                  |
| 1171 | 1       | -0.08            | -0.9169             | -0.8888                | 0.1106          | -0.2769              | -0.1194         | 0.2912          | 0.000625        | 0.4913                |
| 1172 | 1       | -0.2212          | 1.122               | -2.91E-09              | -0.5706         |                      |                 |                 | -0.1606         |                       |
| 1173 | 1       | -0.4712          | -0.1681             | -0.39                  |                 | 0.1619               | -0.09063        |                 | 0.6794          | -0.09                 |
| 1174 | 1       | -2.26E-09        | -0.2369             | -0.08875               |                 | -0.2269              | -0.009375       |                 | 0.8406          | 0.03125               |
| 1175 | 1       | 1.089            | 0.2919              | 0.99                   | -0.9606         | -1.218               | 0.08937         | -0.59           | -0.06063        | 0                     |
| 1176 | 1       | -0.3631          | -0.67               | -0.8119                | -1.183          | -2.79E-10            | -0.4225         | -2.332          | -0.6325         | 2.728                 |
| 1177 | 1       | 0.1488           | 0.2519              | -2.91E-09              | -0.4906         | -2.108               | -0.2406         | -0.31           | 0.1994          | -0.68                 |
| 1178 | 1       | -1.051           | -0.9681             | -0.26                  | 0.06938         | -0.5881              | 0.3994          | -0.65           | 1.129           | -0.65                 |
| 1179 | 1       | -0.3313          | 0.7619              | -0.8                   | -0.3306         |                      | 1.529           |                 |                 |                       |
| 1180 | 1       | 0.4588           | -0.3481             | 0.51                   | 1.129           | 1.942                | -2.351          | 0               | 0.5594          | 2.12                  |
| 1181 | 1       | 0.7              | -0.6469             | 1.151                  | -0.06938        |                      | -0.7594         |                 | -1.439          | 1.171                 |
| 1182 | 1       | 0.03875          | -0.7481             | -0.19                  | -0.000625       | 0.7919               | -0.4706         |                 | -0.4506         | 0.66                  |
| 1183 | 1       | -0.7188          | 1.724               | 2.662                  | -0.1781         | -0.4156              | 0.06187         | 2.432           | 2.142           | 2.072                 |



Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1184 | 1       | -2.26E-09        |                     | 0.5212                  | 0.2106          | -0.3869              |                 |                |                 |                       |
| 1185 | 1       | 0.03             | 0.6631              | 0.8112                  | -0.1794         | -1.407               | -0.3194         | 0.07125        | 0.000625        | -0.4988               |
| 1186 | 1       | -0.8512          | 1.862               | 1.71                    | -0.000625       |                      | 2.249           |                |                 | -0.7988               |
| 1187 | 1       | -0.6012          | 2.412               | 2.41                    | 0.08938         | 1.412                | 2.629           | -1.6           | -1.771          | 0.94                  |
| 1188 | 1       | -1.237           | 0.05594             | -0.1859                 | -0.6366         | 1.576                | 0.4234          |                | -1.177          | 1.094                 |
| 1189 | 1       | -4.251           | 0.7619              | 0.32                    | -6.861          | 0.1219               | -0.2006         | -3.97          | -1.771          | 0.19                  |
| 1190 | 1       | 0.2744           | 1.438               | 1.796                   | 0.005           | 0.2475               | -0.005          |                | -0.315          | 1.806                 |
| 1191 | 1       | 0.5388           | 1.502               | 2.28                    | 0.1694          | -0.5981              | -0.8206         | 0.93           | -0.306          | 1.61                  |
| 1192 | 1       | 0.1338           | 1.637               | 1.465                   | 0.004375        | -0.3731              | -0.2756         | 1.185          | -0.7356         | 1.885                 |
| 1193 | 1       | -0.05            | 2.173               | 2.301                   | -0.09937        | -0.1369              | 0.000625        | 0.7312         | -0.7794         | 1.901                 |
| 1194 | 1       | -0.1056          | 1.638               | 1.706                   | -0.275          | -0.4225              | -0.385          |                | -0.955          | 1.596                 |
| 1195 | 1       | -0.3112          | 1.212               | 1.32                    | -0.8006         | 0.07188              | -0.5506         | 0.87           | -0.1806         | 0.36                  |
| 1196 | 1       | -0.3212          | 1.542               | 1.46                    | 0.1694          | 0.6019               | 1.329           | -0.3           | -0.7106         | -1.48                 |
| 1197 | 1       | -2.26E-09        | 3.723               | 3.431                   | -1.149          | 0.07313              |                 | -0.5688        | -3.819          |                       |
| 1198 | 1       | -0.7331          | 1.91                | 1.508                   | -0.5325         | -2.79E-10            | 0.3575          | 0.1381         | -0.9625         | -0.7019               |
| 1199 | 1       | -0.3356          | 1.498               | 2.006                   | -0.475          | 0.3475               | 0.145           | 0.6656         |                 | -0.1544               |
| 1200 | 1       | -1.46            | 3.393               | 2.771                   | -1.549          | 1.043                | 0.6906          | -0.00875       | 0.000625        | -0.02875              |
| 1201 | 1       | -1.571           | 4.142               | 3.21                    | -2.351          | -0.1481              | -0.4106         |                | -1.851          | 0.11                  |
| 1202 | 1       | -0.29            | 2.263               | 0.8312                  | -0.4994         | -0.6369              | -0.5094         | -0.3888        | 0.000625        | 0.7712                |
| 1203 | 1       | -2.26E-09        | 3.693               | 3.651                   |                 | 1.163                | 0.3006          | -1.489         | 1.551           | 1.401                 |
| 1204 | 1       | -1.046           | 4.817               | 6.285                   | 0.6644          | 2.677                | 1.674           |                | -0.3256         | 0.065                 |
| 1205 | 1       | -0.4262          |                     | 3.525                   | -0.9356         | -1.037               | 0.2144          | -0.625         | -0.3356         | 1.545                 |
| 1206 | 1       | -0.96            | 2.143               | 3.671                   | -0.8394         | 0.6531               | 0.5706          | -1.039         | -0.1039         | 1.701                 |
| 1207 | 1       | -0.06            | 1.563               | 2.361                   | 0.09063         | 1.773                | 0.6106          | -0.02875       | 0.000625        | -0.5587               |
| 1208 | 1       | -1.339           | 5.224               | 5.802                   |                 |                      |                 |                | -2.208          |                       |
| 1209 | 1       | -2.201           | 3.732               | 3.86                    | -1.891          | 2.512                | 0.1994          | -0.16          | 0.1994          | 1.57                  |
| 1210 | 1       | -0.9362          |                     | 3.705                   | -1.076          | 2.587                | 0.6244          | 0.205          | 0.6744          | 1.675                 |
| 1211 | 1       | -0.1106          | 2.853               | 2.451                   | -0.61           |                      |                 | -0.9694        | -1.09           | 0.1106                |
| 1212 | 1       | -0.7712          | 2.282               | 2.67                    | -0.6406         | 1.742                | 0.5294          | 0              | 0.08938         | -0.25                 |
| 1213 | 1       | -1.589           | 2.824               | 3.892                   |                 | 3.064                | 0.3419          | -1.978         | -0.1681         | -2.308                |
| 1214 | 1       | -0.3812          | 2.752               | 2.63                    | -0.000625       | 1.002                | 0.09937         | -0.02          | 0.2994          | -0.34                 |
| 1215 | 1       | -0.7712          | 2.292               | 2.43                    | -0.000625       | 1.122                | 0.09937         | 0.12           | 0.2394          | -0.31                 |
| 1216 | 1       | -0.8556          | 2.428               | 2.286                   | 0.065           | 1.088                | -0.065          | 0.08562        | 0.155           |                       |
| 1217 | 1       | -0.5613          | 2.512               | 2.55                    | 0.01937         |                      | -0.4106         | -0.09          | 0.1994          | 0.2                   |
| 1218 | 1       | -0.1312          | 1.702               | 1.82                    | 0.01938         | -0.6381              | 1.169           | -0.6           | -1.881          | 0.71                  |
| 1219 | 1       | -0.3612          | 3.322               | 1.74                    | -0.3306         | 0.7419               | -0.8006         | 0.34           | -1.561          | 1.73                  |
| 1220 | 1       | -0.2912          | 2.582               | 3                       | -0.3906         | -0.2781              |                 |                |                 | 0.34                  |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1221 | 1       | -1.4             | -0.2769             | -0.1988                | -0.6594         | 0.2731               | 0.000625        | 0.2512          | -0.2394         | 0.5013                |
| 1222 | 1       | -1.263           | 0                   | -0.1019                | -0.1825         | 0.53                 | 0.6375          | 0.008125        | -0.2125         | 1.438                 |
| 1223 | 1       | -0.6512          | 0.3619              | -2.91E-09              | 0.07938         | -0.008125            | 1.009           | -0.1            | -0.1306         | 0.28                  |
| 1224 | 1       | -1.79            | 1.013               | 0.7412                 | 0.04063         | 1.693                | 0.000625        | -0.8788         | -1.609          | -1.349                |
| 1225 | 1       | 0.04125          |                     | 0.9325                 | 0.3619          | -0.3256              | 0.6819          | 0.1825          | 0.2319          | 0.4925                |
| 1226 | 1       | -0.3906          | -0.4875             | -0.2494                | 0.43            | 0.2525               | 0.06            |                 | 0.03            | -0.3294               |
| 1227 | 1       | 0.06875          | 0.7019              | -0.02                  | -1.551          | 0.3819               | -0.7506         | 5.11            | -2.141          | -0.05                 |
| 1228 | 1       | 0.01438          | 0.8575              |                        | -0.015          | 0.0375               | 2.095           |                 |                 |                       |
| 1229 | 1       | 0.2788           | 0.3119              | 0.02                   | 0.07938         |                      | -0.01062        | 0.7             |                 |                       |
| 1230 | 1       | -0.3056          | 1.697               | 1.856                  | 0.305           | 1.627                | 0.725           |                 | -5.165          | 1.016                 |
| 1231 | 1       | -2.26E-09        | 2.163               | 2.411                  | 1.021           | 2.283                | 1.541           | -3.289          | -3.489          | 1.401                 |
| 1232 | 1       | -2.26E-09        | 1.883               | 2.041                  | 0.7906          | 1.873                | 1.041           | -2.159          | -2.139          | 1.271                 |
| 1233 | 1       | 0.9088           |                     | 1.25                   | -0.7506         |                      |                 |                 |                 |                       |
| 1234 | 1       | 0.6738           | 1.197               | 0.705                  |                 | 0.5269               |                 | -1.035          | -0.3756         | -0.255                |
| 1235 | 1       | -0.01062         |                     | 0.2406                 | -0.56           |                      |                 |                 |                 | -3.519                |
| 1236 | 1       | 1.131            | 1.514               | 2.302                  | -0.008125       | -0.6256              | -0.7981         | 0.3525          | 0.1219          | -2.988                |
| 1237 | 1       | 0.06875          | 0.1119              | 1.37                   | -0.1606         | 0.1619               | -0.2106         |                 | -1.841          | -2.92                 |
| 1238 | 1       | -0.08219         | 0.03094             | 0.8791                 | -0.8016         | -1.159               |                 | 1.899           | -0.7916         | 0.1291                |
| 1239 | 1       | -2.26E-09        | -0.5069             | -0.5388                | 0.2306          | 0.4431               | 0.7606          | 0.5312          | 0.8106          | 0.9312                |
| 1240 | 1       | -0.8012          | -0.4981             | -1.12                  | -0.7006         | 0.3919               | -0.6906         | 0.99            | 0.8394          | 0.14                  |
| 1241 | 1       | 0.1688           | -0.06812            | -0.35                  | -0.6806         | 0.7319               | 0.8394          | -0.73           | -0.8906         | -0.63                 |
| 1242 | 1       | 0.09125          | -0.1556             | -0.9075                | -1.218          |                      | -0.7081         |                 | -0.8081         | 2.482                 |
| 1243 | 1       | -0.4831          | -0.59               | 0.2181                 | -0.6525         | -2.79E-10            | 0.9175          | -1.832          | 1.427           | 2.118                 |
| 1244 | 1       | -0.8562          |                     | -0.235                 | -0.2156         |                      | -0.3656         | -0.305          | -1.186          | 2.285                 |
| 1245 | 1       | 0.4237           | -0.7431             | 0.595                  | 0.4044          | 0.3869               | 1.344           | -0.825          |                 | 0.025                 |
| 1246 | 1       | -0.8862          | 0.4669              | -0.215                 | -1.016          |                      | 1.384           |                 |                 | 0.215                 |
| 1247 | 1       | -0.8362          | -0.6931             | -0.025                 | 0.2544          | 0.05688              | 1.934           | 0.655           |                 | 0.025                 |
| 1248 | 1       | -0.4612          | 1.822               | 1.94                   | -0.7506         | 1.552                |                 |                 | -2.601          | 0.02                  |
| 1249 | 1       | -0.3863          | -0.1431             | 0.025                  | 0.004375        | 0.3269               | 1.984           |                 | -1.346          | -0.465                |
| 1250 | 1       | 0.2488           | 0.2919              | 0.65                   | -1.271          | 1.092                | 2.149           | -1.41           | -1.231          | 0                     |
| 1251 | 1       | -0.1413          | 1.642               | -0.12                  | -0.5006         | 0.3119               | 0.6894          |                 |                 | -3.36                 |
| 1252 | 1       | 0.01875          | 0.2219              | 0.53                   | 0.1294          | 0.8819               | 1.359           | 0.12            | -1.251          | -0.23                 |
| 1253 | 1       | -0.5612          | 0.5419              | -0.21                  | -1.351          | 1.532                | 1.249           |                 | -0.9106         | -1.98                 |
| 1254 | 1       | -0.05            | 0.2731              | -0.4288                | 0.1406          |                      | 0.000625        |                 | -0.7794         | -0.4687               |
| 1255 | 1       | -0.05125         | 0.3019              | -0.2                   | -0.8006         | -0.1581              | -0.4606         |                 |                 | -0.34                 |
| 1256 | 1       | -0.3813          | 0.8919              | -0.32                  | -0.8706         | 0.1619               | -0.2706         |                 |                 |                       |
| 1257 | 1       | 0.5288           | 0.3819              | 0.37                   | -0.6806         | -0.2681              | 0.3494          |                 | -2.541          | -0.34                 |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1258 | 1       | -0.07125         | -0.7681             | -0.03                   | -0.8206         |                      | 0.1394          |                 | -0.5606         | -0.23                 |
| 1259 | 1       | 0.1534           | -0.1534             | -0.3653                 | -0.3059         |                      | 0.2941          | -0.8653         | 0.1541          | 0.4847                |
| 1260 | 1       | 0.3688           | 1.542               | -0.42                   | -1.041          | -0.05812             | -1.641          |                 | -1.571          |                       |
| 1261 | 1       | 0.3088           | 0.4219              | 0.22                    | -0.2606         | 1.952                | 0.6294          | -0.32           | -0.9406         | 2.34                  |
| 1262 | 1       | -1.019           | 1.444               | -0.6875                 |                 |                      |                 |                 | -1.838          | -0.9575               |
| 1263 | 1       | -0.1612          | 1.192               | -0.45                   | -2.011          | 2.172                | -1.051          |                 |                 | 1.67                  |
| 1264 | 1       | -2.007           | -1.254              | -1.856                  | -2.417          | -0.8541              |                 |                 | -0.9566         | -1.326                |
| 1265 | 1       | -0.01656         | 0.01656             | -1.275                  | -2.796          | -1.033               | -2.116          | -2.265          | -1.966          | -1.265                |
| 1266 | 1       | 0.4988           | -0.8581             | -0.58                   | -1.251          | 0.3819               | -0.1106         | -3.71           | -4.811          | -1.23                 |
| 1267 | 1       | 0.5837           |                     |                         | -0.6256         | 0.8969               | 0.1344          |                 |                 | -0.415                |
| 1268 | 1       | -2.26E-09        |                     |                         | -3.029          | -0.3869              |                 |                 |                 |                       |
| 1269 | 1       | -0.01562         | 1.238               | -0.2244                 | -1.625          | -1.062               | -1.165          |                 | -1.835          | -0.3644               |
| 1270 | 1       | 0.38             | -0.5869             | 0.1512                  | -0.6094         | -0.03687             | 0.00625         |                 |                 |                       |
| 1271 | 1       | -1.386           | -1.963              | -1.955                  | 0.2844          | 1.517                | 1.514           |                 | -1.486          | -0.195                |
| 1272 | 1       | -0.8388          | 1.164               | 0.0725                  | -1.288          | -0.3056              | -1.728          |                 |                 | -0.4575               |
| 1273 | 1       | -0.7912          | 0.6919              | -1.2                    | -1.341          | -0.5181              |                 | -1.88           | -0.3506         | -0.41                 |
| 1274 | 1       |                  | 0.2869              | -0.355                  | -0.03562        | -0.5031              | 2.064           |                 | -0.4056         | -0.445                |
| 1275 | 1       | 0.04687          | 1.14                | -0.5619                 | -1.723          | -2.79E-10            | -2.163          | 0.1781          | -0.7725         | -0.1319               |
| 1276 | 1       | -0.1763          |                     | -1.345                  | 0.04437         |                      | 2.174           |                 | -0.9656         | 0.015                 |
| 1277 | 1       | 0.1138           | 0.8769              | -0.585                  | 0.08438         | -0.2131              |                 | -0.565          | -1.036          | -0.955                |
| 1278 | 1       | -0.2112          | -0.1481             | -0.45                   | -0.6206         | 0.4219               | -0.3606         | -0.53           | -0.4706         | -0.1                  |
| 1279 | 1       | -1.101           | -1.538              | 0.57                    | -0.7406         | -0.1181              | -1.141          | 2.92            | 3.399           | -0.14                 |
| 1280 | 1       | -0.08062         | -0.3875             |                         | -0.87           | -0.4175              | -0.63           | -0.3094         | -0.04           | 0.04062               |
| 1281 | 1       | -0.000625        | 1.173               | -0.3794                 | 2.56E-11        |                      |                 |                 | -1.29           | 2.091                 |
| 1282 | 1       | 0.04437          |                     | -0.04438                | 0.585           | -0.8225              | -0.515          |                 | -0.875          | 0.08562               |
| 1283 | 1       | -0.3512          | 0.2119              | 0.64                    | -0.4006         | 1.822                | 1.099           | 0.74            | 0.3494          |                       |
| 1284 | 1       | 0.1484           | 0.4716              |                         | 0.6291          | -0.1484              |                 |                 |                 | 0.5997                |
| 1285 | 1       | 0.765            | -0.5619             | 0.1562                  | 0.8556          | 0.2181               | 1.396           |                 | 1.466           | 0.6863                |
| 1286 | 1       | 0.6669           | 0.06                | 0.9381                  | 0.4475          | -2.79E-10            | 2.547           | 1.558           | 2.747           | -1.612                |
| 1287 | 1       | 0.7912           | -0.1656             | 0.0625                  | 0.09187         | 0.3344               | 1.492           | 0.0925          | -0.1581         | 1.042                 |
| 1288 | 1       | -0.09062         | -0.4975             | 0.3806                  | 0.35            | 0.1425               | 1.06            | -0.2594         | 0.1             |                       |
| 1289 | 1       | 0.00875          | 0.8019              | 0.57                    | -0.000625       | -0.1381              | 0.3794          | 0.97            | 0.2494          | -1.08                 |
| 1290 | 1       | 1.097            | -0.34               | -0.1019                 | 0.2975          | -2.79E-10            | 1.387           | -0.2019         | -0.1625         | -0.07188              |
| 1291 | 1       | 0.01875          | -0.08812            | 0.83                    | -0.000625       | -0.6681              | 2.549           |                 | -0.7506         | 0.93                  |
| 1292 | 1       | 0.5888           | -0.1281             | 0.45                    | -0.4606         | -1.668               | -0.1006         | -0.02           | 0.5094          | 0.05                  |
| 1293 | 1       | 0.7769           | 0                   | 0.5781                  |                 | -1.25                | -0.3225         | 1.628           | 0.9775          | -0.07188              |
| 1294 | 1       | 0.5538           | -0.4831             | 0.515                   | 1.004           | 0.3969               | 1.054           | 0.835           | 0.7844          |                       |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1295 | 1       | 1.319            | 0.2519              | 1.62                   | 1.039           | 0.2819               | 1.969           |                 | 0.3194          | -0.68                 |
| 1296 | 1       | 0.05             | -0.4769             | 0.07125                | 0.000625        | 0.5531               | -0.3794         | 0.1012          | 0.000625        | 0.4513                |
| 1297 | 1       | -0.3488          | 0.1944              | 1.002                  | 0.01187         | -0.2256              | 1.472           | 0.7725          | -0.7281         | -0.1175               |
| 1298 | 1       | -0.5488          | 0.2444              | 0.9525                 | 0.08187         | -0.7956              | 1.192           | 0.7525          | -0.7281         | -0.2575               |
| 1299 | 1       | -0.5031          | 0                   | 0.2981                 | 0.4975          | 0.65                 | 0.6575          |                 | -1.923          | -1.012                |
| 1300 | 1       | -0.3313          | -0.5381             | 1.32                   | -0.1206         | -0.3081              | -0.9006         | -0.2            |                 |                       |
| 1301 | 1       | -0.7988          |                     | -0.2775                | 0.1019          | 0.1544               | 1.022           |                 | -1.308          | -1.668                |
| 1302 | 1       | -0.4512          | -0.02812            | 0.34                   | -1.061          | 1.442                | 2.209           |                 |                 | -0.51                 |
| 1303 | 1       | -0.5012          |                     | 0.91                   | 0.2994          | 1.462                | 4.299           | -1.69           | -1.171          | 0                     |
| 1304 | 1       | 1.197            | 0                   | -0.1719                | 0.2275          | -0.82                | -0.2125         | -2.182          | -0.9325         | 0.9581                |
| 1305 | 1       | 0.9234           |                     | 1.995                  | 1.554           | -0.05344             | 0.05406         |                 | -2.356          | -0.5553               |
| 1306 | 1       | -0.3512          | 0.3719              | 0.22                   | 0.1994          | 3.182                | 3.569           |                 | -2.541          | 2.56                  |
| 1307 | 1       | 1.699            | 0.2719              | 1.21                   | 0.7594          | 0.5019               | 1.009           | -0.85           | -1.471          | -1                    |
| 1308 | 1       | 1.373            | -0.3941             | 0.3941                 | 0.7534          | 0.4559               | 0.8034          |                 | -1.817          | -1.306                |
| 1309 | 1       | 0.1369           | 0                   | 0.4581                 | 0.1875          | -0.08                |                 |                 |                 | -0.09188              |
| 1310 | 1       | -0.1312          | -1.898              | -2.91E-09              | 0.1494          | 1.672                | 2.389           | -2.59           | -0.1406         | -0.91                 |
| 1311 | 1       | -1.401           | -0.5081             | 0.8                    | 1.119           | -0.3781              | 0.7094          |                 | -3.231          | 2.1                   |
| 1312 | 1       | -1.95            | -0.6369             | 0.3312                 | 0.8506          | -1.087               | 0.4906          |                 | -3.119          | 1.981                 |
| 1313 | 1       | -0.4262          | -1.343              | 0.685                  | 0.6244          |                      | 0.1944          |                 | -1.966          | 2.865                 |
| 1314 | 1       | 0.2912           | 0.1844              | 0.6425                 | 0.07187         | 0.5544               | 0.4319          |                 | -4.008          | -4.048                |
| 1315 | 1       | 0.6388           | -0.5181             | 0.07                   | -0.1806         | 1.312                | 2.399           | 0               | -0.1806         | -2.83                 |
| 1316 | 1       | -0.38            | 0.4131              |                        | 0.1806          | 0.4731               | 0.4206          |                 | -0.5394         |                       |
| 1317 | 1       | 3.419            | 4.192               | 6.21                   | 5.259           | 2.962                | 4.239           |                 | -4.051          | -1.71                 |
| 1318 | 1       | 0.725            | 1.298               | 2.076                  | 1.756           | 0.5981               | 1.896           |                 | -0.3944         | -0.05375              |
| 1319 | 1       | 0.1812           | 1.304               | -1.498                 |                 | -3.036               |                 |                 | -2.808          | -1.348                |
| 1320 | 1       | 0.6688           | 0.5619              | 0.99                   | 0.2394          | -0.3381              | 1.249           |                 | -0.8806         | 0.02                  |
| 1321 | 1       | -0.2513          | 0.8819              | 1.39                   | 2.289           |                      | -0.5706         |                 | -0.6306         | 0.61                  |
| 1322 | 1       | 0.6              | -0.1669             | 0.5112                 | 0.4506          | -0.9869              | 0.1406          | 0.1112          | 0.02062         | -1.759                |
| 1323 | 1       | 0.4688           | -0.1981             | -0.44                  | -0.01062        | -1.748               | -0.7406         | 0.19            | 0.3594          | -0.6                  |
| 1324 | 1       | 0.3469           | 0                   | 3.478                  | 0.4275          | 2.65                 | 1.137           |                 | -2.113          | -2.912                |
| 1325 | 1       | -0.45            | -0.2769             | 0.8812                 | -1.679          | 2.073                | 4.231           | 1.251           | 0.000625        | -2.079                |
| 1326 | 1       | 1.409            | -0.2381             | 0.77                   | -0.000625       | -0.6581              | -0.2206         |                 | -2.961          | -0.36                 |
| 1327 | 1       | 0.3788           | 1.212               | 0.7                    | -0.000625       | -0.2981              | 0.9994          |                 | -0.9306         |                       |
| 1328 | 1       | 0.9888           | 1.102               | 0.51                   | -1.571          | -2.908               | -2.171          | 0.48            | 0.4894          | 0                     |
| 1329 | 1       | 0.4288           | 0.2119              | -2.91E-09              | -0.07062        | -1.228               | -2.891          | -0.34           | 0.6094          | 0.68                  |
| 1330 | 1       | -0.04062         | -0.1375             | -0.8394                | 0.35            | -0.4975              | 0.3             | 0.2506          | -0.01           | -0.1394               |
| 1331 | 1       | -1.571           | -1.048              | -1.63                  | 0.9894          | 2.392                | 2.279           |                 |                 | -0.07                 |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1332 | 1       | -1.536           | 1.247               | 0.015                  | -1.566          | -0.2631              | 0.4244          | -0.015          | 0.3944          | 0.655                 |
| 1333 | 1       | -2.971           |                     |                        | -2.281          | -2.648               |                 |                 |                 | 1.65                  |
| 1334 | 1       | -1.492           | -0.02906            | -0.8309                | 0.4084          | -0.4691              |                 |                 | 0.2784          | 0.6491                |
| 1335 | 1       | -1.111           | -1.308              | -1.07                  | -0.4906         | -0.3181              | -0.1606         | 0.41            | 0.2194          | 0.04                  |
| 1336 | 1       | -1.101           | -1.518              | -1.17                  | -0.4606         | -0.6481              | -0.2506         | 0.47            | 0.05938         | -0.03                 |
| 1337 | 1       | -1.311           | -1.158              | -1                     | 0.07937         | 0.3419               | 0.5694          | -0.76           | -0.6106         | 0.03                  |
| 1338 | 1       | -0.9412          | -0.8881             | -1.18                  | -0.4606         | 0.8919               |                 | -0.14           | -0.1806         | 0.19                  |
| 1339 | 1       | -0.6812          |                     | 0.49                   | 0.8694          | 0.8319               | 2.119           |                 | 1.539           | -0.3                  |
| 1340 | 1       | -1.625           | 0.1181              | -1.054                 | -0.09438        | -0.9119              | 2.086           | -1.104          | 1.496           |                       |
| 1341 | 1       | 0.6288           | 0.06188             | -2.91E-09              | 0.6994          | -0.5081              | 0.7794          |                 | 0.3594          | -0.48                 |
| 1342 | 1       | 0.07687          | -0.17               | 0.3481                 | -0.5525         | -2.79E-10            | 0.7775          |                 | -0.3025         | -0.2519               |
| 1343 | 1       | -0.3666          | -1.253              | -0.9253                | 0.4141          | 0.2566               | -0.2559         |                 | 3.034           | -0.3747               |
| 1344 | 1       | -1.201           | -0.6181             | -0.59                  | 0.3394          | 0.9019               | 0.4994          |                 |                 | -1.76                 |
| 1345 | 1       | -0.5012          | -0.3181             | 0.14                   | 0.4394          | 0.4019               |                 |                 |                 | 0.25                  |
| 1346 | 1       | 1.554            |                     | 1.806                  | 0.495           |                      | 0.485           |                 | -1.745          | -1.794                |
| 1347 | 1       | 0.1488           | 1.452               | -0.26                  | -1.201          |                      | -0.6406         | -0.52           | -1.111          | 1.44                  |
| 1348 | 1       | 0.09781          |                     | -0.3909                | -2.132          | 0.01094              | 0.2084          |                 | -0.9216         | -0.01094              |
| 1349 | 1       | -0.2512          |                     | -0.47                  | -0.5006         | 0.1319               | -0.4206         |                 | -0.4806         | 0.7                   |
| 1350 | 1       | 0.5988           |                     | 0.75                   | 0.9594          |                      | -0.9706         |                 | -0.9006         | -0.76                 |
| 1351 | 1       | -0.9262          | -1.853              | -1.065                 | -0.5656         | 1.057                | -0.8156         | 0.455           | 0.8944          | -0.115                |
| 1352 | 1       | -1.621           | -1.588              | -1.71                  | -0.7806         | 0.4219               | 0.1094          | -0.34           | -0.4106         | 0.39                  |
| 1353 | 1       | 0.04562          | 0.4587              | -0.6631                | 1.616           | 1.539                | 4.236           | -2.653          | -2.414          | 1.177                 |
| 1354 | 1       | -1.161           | -0.9081             | -0.64                  | 0.3794          | 1.662                | 2.579           | -0.88           | -0.6506         |                       |
| 1355 | 1       | -0.9012          | -1.758              | -1.14                  | 0.2294          | 1.462                | 1.639           | -1.06           | -0.8506         | 0.36                  |
| 1356 | 1       | -1.141           | -1.788              | -1.05                  | 0.1694          | 1.572                | 1.689           | -1.12           | -0.9606         | 0.41                  |
| 1357 | 1       | -0.7309          | -0.007813           | 0.3803                 | 1.02            | 1.642                | 3.6             |                 | -2.29           | -2.41                 |
| 1358 | 1       | 0.1387           | 1.262               | -0.01                  | -0.9506         |                      | 0.4694          |                 | -1.091          |                       |
| 1359 | 1       | 0.3028           | 0.04594             | 0.4541                 | -0.04656        |                      |                 | 0.2141          | -0.3966         |                       |
| 1360 | 1       | 0.1112           | 0.1544              | 0.0225                 | 0.6919          | 0.4744               | -0.4081         | -1.328          | -1.208          | -0.2575               |
| 1361 | 1       | -2.26E-09        | 0.05313             | 0.01125                | 0.5406          | 0.3631               | -0.4094         | -1.419          | -1.379          | -0.3188               |
| 1362 | 1       | 0.4988           | -0.7481             | -2.91E-09              | 0.4694          | 0.6919               | 0.9694          | 0.61            | -0.5306         | 0.8                   |
| 1363 | 1       | -0.07            | -0.1869             | -0.2988                | 0.7006          | 0.3531               | 1.161           | -0.5888         | 0.000625        | -1.119                |
| 1364 | 1       | 0.07687          | -0.84               | -0.3119                | 0.3875          | -2.79E-10            | 1.277           | -0.5719         | 0.0775          | -1.222                |
| 1365 | 1       | 1.191            | 1.034               | 1.562                  | 1.522           | 0.7444               | 2.092           | -4.808          | -0.6381         | -4.278                |
| 1366 | 1       | -0.6012          |                     | -0.08                  | -1.491          |                      | 0.4694          |                 | -2.721          | -0.81                 |
| 1367 | 1       | 1.089            |                     | 1.27                   | 1.569           |                      | 1.969           |                 | -3.681          | -1                    |
| 1368 | 1       | -2.26E-09        | 0.4131              | 0.4312                 | -0.7394         | -0.9869              | -0.06938        |                 |                 | -0.5288               |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRYOX | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1369 | 1       |                  | 1.512               | -2.91E-09               | -0.9606         |                      |                 |                 |                 | -0.91                 |
| 1370 | 1       | 0.4288           | -0.008125           | -2.91E-09               | 0.8294          | -0.2781              | 0.2394          |                 | 0.3794          | 0.35                  |
| 1371 | 1       | 0.4794           | 0.0625              | 0.3106                  | 0.03            | -2.247               | -0.03           |                 |                 | 0.4106                |
| 1372 | 1       | 1.411            | 0.5344              | 0.6525                  | 0.02187         | 0.1744               | -0.1981         | -1.588          | -0.5781         | 0.0425                |
| 1373 | 1       | 0.4828           | -0.2641             | 0.8241                  | 1.643           | 0.1659               | 1.923           | 0.3841          | -1.347          | -1.926                |
| 1374 | 1       | 1.029            | 0.08188             | -2.91E-09               | 1.679           | 0.3119               | 1.709           | -1.46           | -0.5606         | -1.62                 |
| 1375 | 1       | 1.217            | 0                   | 0.01812                 | 2.247           | 0.51                 | 2.197           |                 | -0.3825         | -2.632                |
| 1376 | 1       | 0.2              | 0.1331              | 0.5212                  | 0.8406          |                      | -0.6894         | 0.2412          | 0.000625        |                       |
| 1377 | 1       |                  |                     | 0.995                   | 1.264           | 0.1969               | 0.04438         | -1.345          | -1.066          | 0.395                 |
| 1378 | 1       | -0.3588          | -1.326              | -0.1575                 | 0.7519          | 0.6644               | 0.6919          | -0.5975         | -1.428          | -1.988                |
| 1379 | 1       | -0.1406          | -1.687              | 0.1406                  | 0.91            | 0.9125               | 1.24            | -3.039          | -1.54           |                       |
| 1380 | 1       | 1.283            | -0.2241             | 1.184                   | 1.123           | -0.9941              | 2.493           |                 | -4.897          | -4.216                |
| 1381 | 1       | 0.5912           | 0.8644              | 1.332                   | 1.102           | 0.5644               | 0.9819          | -2.788          | -2.488          | -1.298                |
| 1382 | 1       | 1.819            | 1.252               | 1.38                    | 0.7394          | 0.1119               | -1.081          | -4.54           | -6.221          | -1.67                 |
| 1383 | 1       | 1.459            | 0.7119              | 2.09                    | 0.6694          | 0.08188              | 0.7694          | -2.22           | -2.541          | 0                     |
| 1384 | 1       | 1.167            | 0                   | 0.4081                  | 1.727           | 0.71                 | 2.817           | -2.672          | -1.753          | -0.1519               |
| 1385 | 1       | 2.579            | 2.062               | 2.89                    | 1.279           | -0.4081              | 1.159           |                 |                 |                       |
| 1386 | 1       | 1.799            | 1.552               | 2.25                    | 1.709           | 0.4719               | 1.389           | -1.91           | -6.141          | -0.14                 |
| 1387 | 1       | 0.3828           | 0.04594             | 0.5041                  | 1.003           | 0.2159               | 1.803           |                 | -3.527          | -2.066                |
| 1388 | 1       | 1.079            |                     |                         | 1.289           | 2.082                | 2.639           |                 |                 | -2.12                 |
| 1389 | 1       | 0.7878           |                     | 1.529                   | 2.228           | -0.2291              | 0.6584          |                 |                 | -1.191                |
| 1390 | 1       | 0.9488           | 1.232               | 0.94                    | 1.039           | 1.852                | 1.499           | 0.05            | -0.3106         | -0.45                 |
| 1391 | 1       | 1.859            | 0.7219              | 0.76                    | 1.939           | 0.8319               | 0.5994          |                 | -1.501          | -0.69                 |
| 1392 | 1       | 4.159            | 3.202               | 3.96                    | 3.489           | 2.342                | 2.369           | -3.88           | -3.301          | -0.39                 |
| 1393 | 1       | 1.209            | 0.5519              | 1.25                    | 1.799           | 0.9219               | 0.2194          | -0.36           | 1.079           | -3.71                 |
| 1394 | 1       | 0.5569           | 0                   | 0.9081                  | 0.2775          | -0.8                 | 0.4375          | -0.1119         | 0.5075          | -0.6319               |
| 1395 | 1       | 0.7344           | 0.7675              | 0.2356                  | 0.195           | -0.9125              | 0.645           | 0.08562         | -0.085          | -0.1944               |
| 1396 | 1       | 0.5488           | 0.5919              | 0.52                    | -0.000625       | -0.8081              | 0.4994          | 0.07            | 0.08937         | -0.19                 |
| 1397 | 1       | 0.8088           | 0.7419              | 1.34                    | 0.8994          | 1.132                | 1.909           | -0.78           | -0.2906         | -0.77                 |
| 1398 | 1       | 2.33             | 1.313               | 1.211                   | 2.341           | 2.053                | 1.641           | 0.6812          | 0.000625        | -0.8187               |
| 1399 | 1       | 0.09375          | 0.6069              | 1.485                   | -0.05563        |                      |                 |                 |                 |                       |
| 1400 | 1       | 0.6578           | 0.4109              | 0.5891                  | 0.4484          | 0.1109               | 0.7584          | -0.6909         | -1.102          | 0.1591                |
| 1401 | 1       | 1.669            | 1.432               | 2.19                    | 0.8994          | -0.5981              | 1.019           | 0               | -1.071          | -0.04                 |
| 1402 | 1       | 0.8588           | 0.9919              | 2.01                    | 2.189           | -0.03812             | 2.589           | -0.69           | -0.2606         | -0.22                 |
| 1403 | 1       | 0.09875          | -0.7381             | 0.02                    | 1.229           | 0.3619               | 1.879           | -1.02           | -0.5906         | 0                     |
| 1404 | 1       | 0.4888           | -0.1581             | 0.46                    | 0.8494          | 0.9719               | 0.8894          | -0.12           | 0.08938         | -0.34                 |
| 1405 | 1       | 0.5978           | 0.03094             | 0.6391                  | 0.8884          | 1.041                |                 | -0.05094        | -0.07156        | -0.3209               |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1406 | 1       | 2.019            | 1.312               | 1.78                   | 2.519           | 2.142                | 2.099           | -2.75           | -2.751          | -3.53                 |
| 1407 | 1       | 1.419            | 0.9119              | 1.54                   | 1.139           | 0.5219               | 1.339           | -2.93           | -2.051          | -1.85                 |
| 1408 | 1       | 1.827            | 1.09                | 1.478                  | 1.487           | -2.79E-10            | 1.197           | -4.6            | -2.993          | -1.672                |
| 1409 | 1       | 0.3387           | -0.6081             | 0.11                   | 1.449           | 2.232                | 0.4894          |                 |                 |                       |
| 1410 | 1       | 0.2388           | -0.6981             | -2.91E-09              | 1.129           | 2.152                | 0.7094          |                 | -7.301          |                       |
| 1411 | 1       | 0.004375         | -0.7025             | -0.004375              | 1.345           | 2.358                | 0.995           |                 |                 | -6.274                |
| 1412 | 1       | 0.5069           | -0.08               | 0.9781                 | 0.7375          | -2.79E-10            | 1.587           |                 | -3.433          | -2.102                |
| 1413 | 1       | 0.6888           | 0.9819              | 1.26                   | 1.459           | 1.442                | 2.569           | 0               | -0.1506         | -1.11                 |
| 1414 | 1       | 2.289            | 1.302               | 2.05                   | 1.949           | 1.622                | 2.119           | -1.48           | -0.3006         | -1.48                 |
| 1415 | 1       | 2.609            | 1.932               | 2.62                   | 3.249           | 2.812                | 3.769           | -3.71           | -3.881          | -2.42                 |
| 1416 | 1       | 2.229            | 2.562               | 2.26                   | 2.499           | 1.502                | 2.319           | -0.08           | -1.201          | 0                     |
| 1417 | 1       | 0.735            | 1.108               | 1.296                  | 1.276           | 2.318                | 2.426           |                 |                 | -0.6638               |
| 1418 | 1       | 2.989            | 2.642               | 3.63                   | 3.259           | 2.212                | 3.509           | -2.97           | -1.971          | 0                     |
| 1419 | 1       | 0.3669           | 0                   | 1.128                  | 0.8675          | 1.99                 | 2.107           | -2.732          | -1.523          | -1.612                |
| 1420 | 1       | 0.8888           | -0.008125           | 0.86                   | -0.00625        | 0.1119               | 0.9194          | -2.01           | -3.041          | 0.01                  |
| 1421 | 1       | 0.9387           | 0.3419              | 1.44                   | 0.9194          | 0.5619               | 1.319           | -0.38           | -0.7006         | -4.08                 |
| 1422 | 1       | 0.7328           | -0.01406            | 0.8541                 | 0.4434          | 0.7759               | 1.433           |                 |                 | -4.086                |
| 1423 | 1       | 0.3069           | -0.02               | 1.388                  | 0.8675          | -2.79E-10            | 1.287           | -1.792          | -1.273          | -2.412                |
| 1424 | 1       | 0.01938          |                     | -0.09938               |                 | 0.1025               | 0.74            |                 | -1.92           | -0.01938              |
| 1425 | 1       | 0.7278           | -0.05906            | 0.4591                 | 0.05844         | 0.1709               | -0.08156        | -4.311          | -4.412          | -4.311                |
| 1426 | 1       | -0.055           | -0.4619             | 0.5662                 | 0.1556          | -0.8519              | 0.05562         |                 |                 |                       |
| 1427 | 1       | 0.91             | 0.4831              | 1.161                  | 0.3206          | -0.2069              | 0.000625        | -3.659          | -3.539          | -0.5987               |
| 1428 | 1       | 1.16             | 0.2531              | 1.331                  | 0.2306          | -0.06687             | 0.000625        | -5.069          | -5.529          | -0.6087               |
| 1429 | 1       | 1.31             | 0.1631              | 1.421                  | 0.4206          | -0.1469              | 0.000625        | -4.969          | -5.109          | -0.6687               |
| 1430 | 1       | 1.559            | 0.9519              | 1.56                   | 2.069           | 1.752                | 2.429           | -4.641          | -4.641          | -2.24                 |
| 1431 | 1       | -2.26E-09        | -0.1669             | 0.1812                 | 1.111           | -0.7031              | 1.311           | -1.659          | -0.8794         | -2.079                |
| 1432 | 1       | 0.6544           | -0.0725             | 0.6556                 | 1.205           | 0.5375               | 0.275           | -0.2344         | 0.065           | -4.664                |
| 1433 | 1       | 0.4688           | -1.158              | 0.19                   | 2.439           | 1.502                | 0.5094          |                 | -1.521          | -1.67                 |
| 1434 | 1       | 1.029            |                     | 1.14                   | -0.07063        | 0.8819               | -0.1206         |                 |                 | 0.14                  |
| 1435 | 1       | 0.31             | 0.4731              | 0.4212                 | 0.7806          | 0.003125             | -0.7794         | -1.019          | 0.000625        | -0.9587               |
| 1436 | 1       | 1                | -0.4069             | 0.4712                 | 0.9806          | 1.923                | 1.251           | 0.2212          | 0.000625        | -0.4587               |
| 1437 | 1       | 0.2488           | 0.2019              | 1.4                    | 1.199           | 0.1319               | 1.769           | -0.33           | 0.5594          | -0.89                 |
| 1438 | 1       | -0.5322          | -0.4591             |                        | 0.7184          | 0.1009               |                 |                 |                 | 1.079                 |
| 1439 | 1       | 1.108            | 0.2009              | 0.8191                 | 1.118           | -0.1691              |                 | -0.7909         | -1.132          | 0.4191                |
| 1440 | 1       | 1.323            | 0.1359              | 1.324                  | 1.303           | -0.02406             | 0.5134          |                 | 0.4034          | 0.02406               |
| 1441 | 1       | 0.5178           | 0.4809              | 1.609                  | 1.738           | 1.491                | 2.288           |                 |                 | -1.391                |
| 1442 | 1       | 1.681            | 1.784               | 2.452                  | 2.532           | 1.764                | 2.972           | -3.348          | -2.698          | -0.8475               |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1443 | 1       | 0.7778           | 0.03094             | 1.179                  | 0.3484          | -0.009062            | 1.088           | -2.391          | -3.232          | -0.3909               |
| 1444 | 1       | 0.9637           | 0.6769              | 1.005                  | 1.034           | 0.6369               | 1.186           | -1.775          | -3.596          | -0.195                |
| 1445 | 1       | 0.09562          | -0.4712             | 0.1369                 | 0.8062          | 1.669                | 0.8594          | -2.913          | -3.994          | -2.683                |
| 1446 | 1       | -0.1312          | -0.1681             | -2.91E-09              | 0.8994          | 1.792                | 0.8594          |                 |                 |                       |
| 1447 | 1       | -1.267           | -0.1241             | -0.7759                | 0.1234          | 1.156                | -0.5266         |                 |                 |                       |
| 1448 | 1       | -1.139           | 0.4644              | -0.8875                | -0.2581         | 1.154                | -0.9581         |                 | -3.237          | -1.236                |
| 1449 | 1       | 0.3844           | 0.0175              | 0.3856                 | -0.855          |                      | -0.005          | -3.064          | -2.145          | -1.348                |
| 1450 | 1       | 0.6088           | -0.2181             | 0.31                   | -0.000625       | -1.268               | 0.3994          |                 | -2.351          | -2.25                 |
| 1451 | 1       | 1.867            | 1.15                | 1.458                  | 1.657           | -2.79E-10            | 1.427           |                 | -5.063          | -1.442                |
| 1452 | 1       | 2.099            | 0.9019              | 2.92                   | 1.099           | 1.192                | 0.8694          | -3.99           | -2.651          | 0.55                  |
| 1453 | 1       | 2.091            | 1.254               | 2.372                  | 0.5119          | 1.054                | 1.562           | -3.438          | -3.388          | -0.4575               |
| 1454 | 1       | 1.289            | 1.072               | 1.69                   | 0.4294          | 0.9619               | 1.239           | -1.95           | -1.301          | -0.13                 |
| 1455 | 1       | 0.7937           | 0.06687             | 0.485                  | 0.9344          | 1.027                | 0.5744          |                 | -0.8556         | -0.385                |
| 1456 | 1       | 2.849            | 2.312               | 2.06                   | 1.859           | 1.042                | 0.7594          | -0.92           | -1.101          | 0.52                  |
| 1457 | 1       | 0.95             | 0.2331              | 0.8412                 | 1.411           | 0.5331               | 0.000625        | -0.6688         | -0.8894         | -0.05875              |
| 1458 | 1       | 0.4588           | -0.5781             | 0.63                   | 0.8794          | -0.6781              | 0.3794          | +1.33           | -0.7106         | 0.16                  |
| 1459 | 1       | 0.7837           | 0.08688             | -0.025                 | -0.1356         | -0.6831              | 0.7444          | -1.495          | -0.7656         | 1.675                 |
| 1460 | 1       | 0.1344           | -0.4425             | 0.2556                 | -0.005          | 0.0175               | 0.005           | 0.7556          | 0.615           |                       |
| 1461 | 1       | 1.159            | 0.1819              | 1.11                   | 1.109           | 1.662                | 1.909           | -0.82           | -0.4506         | -0.93                 |
| 1462 | 1       | 1.809            | 1.542               | 2.25                   | 1.719           | 0.8819               | 2.999           |                 | 1.069           | -4.42                 |
| 1463 | 1       | 0.4288           | -0.5381             | 0.03                   | 0.01938         | -0.2281              | -0.1506         | -0.02           | -0.08062        |                       |
| 1464 | 1       | -0.1612          | -1.348              | 0.34                   | -0.2706         | 0.1319               | 0.09937         |                 | -1.861          | -0.59                 |
| 1465 | 1       | -0.3212          | 1.082               | -0.41                  | 0.2994          | -0.5881              | 0.6294          |                 | -2.321          | 0.43                  |
| 1466 | 1       | -1.441           | 0.6619              | 0.41                   | -0.5406         |                      | 1.149           |                 | -4.701          | 1.34                  |
| 1467 | 1       | 0.1037           | 1.227               | 0.765                  | -0.5656         |                      |                 |                 | -2.446          | 1.325                 |
| 1468 | 1       | 0.6878           | -0.1791             | 0.5091                 | 1.048           | 3.871                | 2.958           | 3.249           | 1.208           | -2.831                |
| 1469 | 1       | 1.019            | 1.122               | 1.53                   | 0.4394          | 2.812                | 2.439           |                 | -1.111          | -2.44                 |
| 1470 | 1       | -2.26E-09        | 0.003125            | 0.5812                 | 2.371           | 2.913                | 3.231           | 0.9912          | 0.06062         | -2.499                |
| 1471 | 1       | 0.03344          | -0.03344            | 0.2447                 | 1.024           | -0.2834              | 0.9641          | 1.595           | 2.104           | -1.195                |
| 1472 | 1       | 0.4384           | 0.01156             | 0.2597                 | 0.5291          | 0.4716               | 0.7791          |                 | -0.01094        | 0.1897                |
| 1473 | 1       | -0.003125        | 0                   | 0.6981                 | 0.3075          |                      | 0.3075          | -0.3319         | 0.2775          | 0.3981                |
| 1474 | 1       | 0.3487           | -0.7381             | 0.33                   | 0.2594          | -1.488               | 0.1094          | 0.65            | 0.3194          | -0.04                 |
| 1475 | 1       | 0.01875          | -0.6281             | -0.51                  | 0.1294          | 0.6319               | 0.03937         | -0.36           | 0.9894          | 0                     |
| 1476 | 1       | 0.4069           | 0                   | 0.9881                 | 0.5795          | -1.82                | 0.4175          | 0.2881          | -0.2425         | -0.6719               |
| 1477 | 1       | 0.6988           | -0.6981             | -0.21                  | 0.3794          | -2.128               | -1.011          | 1.39            | 0.5694          | 0.89                  |
| 1478 | 1       | 0.39             | 0.5231              | 1.201                  | 0.1506          | 0.6131               | 0.8306          | -0.9588         | 0.000625        | 0.5412                |
| 1479 | 1       | 0.54             | 0.5331              | 1.421                  | 0.2006          | 0.2431               | 1.131           | -0.7688         | 0.000625        | 0.3813                |



Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C, CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|--------------------------|-----------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1480 | 1       | 0.98             | 0.4531              | 0.5812                   | 0.6906          | -0.3769              | 0.000625        | 0.8912         | 0.5406          | -0.5087               |
| 1481 | 1       | -0.2362          | -1.073              | -0.825                   | 0.1444          | -0.9831              | -0.9356         | 1.075          | 0.4744          | -                     |
| 1482 | 1       | 0.3788           | -0.4281             | -0.19                    | 0.9694          | -1.998               | -2.371          | 0.41           | 0.4094          | 0.21                  |
| 1483 | 1       | 1.279            | -0.4981             | -0.09                    | 0.6394          | -1.368               | -1.441          | 3.05           | 2.679           | 0.31                  |
| 1484 | 1       | 0.5888           | -0.4281             | 0.37                     | 0.9894          | -0.2181              | 0.6194          | 0.72           | 0.9394          | -0.25                 |
| 1485 | 1       | 0.04844          | -0.04844            | -0.3403                  | -1.831          | -1.848               | -0.2909         |                | 4.289           | 1.56                  |
| 1486 | 1       | 1.209            | -0.2081             |                          |                 | -0.008125            |                 |                |                 | 1.33                  |
| 1487 | 1       | 1.019            |                     | 0.5                      |                 | -2.138               |                 | 0.54           | 1.269           | -0.26                 |
| 1488 | 1       | 0.7188           |                     |                          | 0.5194          | -0.7681              | 0.8394          |                |                 | -0.43                 |
| 1489 | 1       | 0.06437          | 0.1775              | -0.07438                 | 0.085           | 0.5075               | -0.165          | 0.5956         | 1.935           | -1.484                |
| 1490 | 1       | 0.7088           | -0.02812            | 0.7                      | 1.019           | 0.2419               | 0.6994          | 1.59           | 1.759           | 0                     |
| 1491 | 1       | 0.9869           | 0                   | 0.8181                   | 0.0075          | 0.39                 | -0.2325         | 0.1181         | 1.477           | -0.9919               |
| 1492 | 1       | 0.8187           | 1.192               | 1.27                     | 2.739           | 1.712                | 0.5494          | -1.31          |                 | -0.62                 |
| 1493 | 1       | 1.61             | 0.9331              | 1.351                    | 0.5106          | -1.897               | 0.3606          | -0.8788        | 0.000625        | 0.7113                |
| 1494 | 1       | 1.458            | -0.1291             | 0.1291                   | 0.8684          |                      |                 |                |                 |                       |
| 1495 | 1       | 2.319            |                     | 0.07063                  |                 | -0.1475              | 0.83            |                | 0.03            |                       |
| 1496 | 1       | 1.441            | 0.9644              | 1.562                    | 0.8719          | -0.01563             | 0.2819          | 0.9825         | 0.5919          | -1.508                |
| 1497 | 1       | 1.521            | 0.7244              | 1.122                    | 2.602           | 0.4744               | -1.138          |                |                 | -1.748                |
| 1498 | 1       | 1.369            | 1.142               | 1.32                     | 1.579           | -0.008125            | 0.8494          | 0.88           | 1.709           | 0.78                  |
| 1499 | 1       | 0.2988           |                     | 0.12                     | 1.949           | 0.7019               | -0.2206         | -1.43          | -0.3906         | 0.66                  |
| 1500 | 1       | -2.26E-09        | 0.7031              | -0.1188                  | 1.751           | 2.223                | 2.041           | 0.1812         | -2.049          | -0.6488               |
| 1501 | 1       | -0.5762          | 0.4569              | 1.945                    | 1.274           | 2.407                | 1.924           |                | -5.796          | -4.065                |
| 1502 | 1       | -1.561           | -1.468              | -2.91E-09                | 0.4994          | 3.072                | 1.329           | 0.22           | -4.751          | -2.99                 |
| 1503 | 1       | 1.015            | 0.9481              | 1.006                    | 2.306           | 1.508                | 1.206           |                | -5.834          | 0.03625               |
| 1504 | 1       | 1.239            | 2.582               | 3.06                     | 1.479           | 0.5319               | 2.159           |                | -4.641          |                       |
| 1505 | 1       | -0.4112          |                     | -0.76                    | -1.021          | -1.038               | -1.561          | 2.68           | 4.549           | -1.61                 |
| 1506 | 1       | -0.6009          | -0.4878             | -1.69                    | -1.63           |                      | -1.71           | 2.15           | 4.23            | -1.34                 |
| 1507 | 1       | -0.1212          | -0.7581             | -0.16                    | -0.9706         | -1.098               | 0.8194          | 1.17           | 2.299           | -1.02                 |
| 1508 | 1       | -0.6113          | -0.5881             | -0.61                    | -0.1206         | -0.9381              | 0.01937         | 1.26           | 1.229           | -0.44                 |
| 1509 | 1       | 0.1256           | -1.681              |                          | -0.1338         | -1.841               | 0.4462          |                |                 | -1.293                |
| 1510 | 1       | -0.2044          | -0.3412             | -0.4531                  | -0.4537         | -0.6912              | -0.02375        |                | 0.1462          | 0.6969                |
| 1511 | 1       | -0.8112          |                     | 0.09                     | -0.2406         |                      | -0.1906         |                | 2.119           | -0.95                 |
| 1512 | 1       | -0.5412          | -0.6781             | -0.76                    | -0.4806         | 0.04188              | 0.4594          | -0.61          | 0.7994          | 0                     |
| 1513 | 1       | -1.04            | -0.5369             | -0.8088                  |                 |                      | 0.04062         |                | 0.000625        | -0.7388               |
| 1514 | 1       | -0.1112          | -0.7181             | -0.2                     | 0.2594          | -0.4181              | -0.5506         | -1.37          | 0.3194          | 0.46                  |
| 1515 | 1       | -0.93            | -1.097              | -1.139                   | 0.2906          | -0.09687             | 0.000625        | 0.7512         | 0.5006          | -0.3987               |
| 1516 | 1       | -2.26E-09        |                     | -0.6088                  | 1.861           | -1.047               | 1.031           | 1.911          | 1.611           | -2.259                |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1517 | 1       | -1.011           | 0.1919              | 0.35                    | -0.9006         | -0.7481              | -0.7606         | -0.5            | -0.9106         | 0.4                   |
| 1518 | 1       | -1.271           | -2.108              |                         | -1.741          | -2.378               | -1.551          | 1.11            | 1.009           | 0.99                  |
| 1519 | 1       | -0.08313         | -1.12               | -1.022                  | -0.0925         | -2.79E-10            | 0.4375          | 0.2881          | 1.837           | 0.6881                |
| 1520 | 1       | 0.38             | -2.807              | -1.969                  | -1.089          |                      | -0.08937        |                 | 0.09063         | -0.4087               |
| 1521 | 1       | -0.1456          |                     | -0.5544                 |                 |                      |                 |                 | -1.385          | -0.6544               |
| 1522 | 1       | -2.351           | -0.9281             | -0.14                   | -2.911          |                      | -2.511          | -0.86           |                 | 0.2                   |
| 1523 | 1       | 0.3087           | -0.5681             | -0.12                   | -0.2306         | -0.2081              | 0.4094          |                 |                 | 1.51                  |
| 1524 | 1       | -0.8612          | -0.2881             | -0.76                   | -0.9606         | 0.4019               | -0.2906         | -1.29           | -1.071          | -0.44                 |
| 1525 | 1       | -0.3712          | 1.932               | -1.05                   | -0.9306         | -0.5481              | -0.2206         |                 | -0.4606         | -0.35                 |
| 1526 | 1       | -0.6406          |                     | -0.7994                 | -1.11           | -0.4075              | -0.1            | -0.8194         | -0.7            |                       |
| 1527 | 1       | -0.315           | -0.2819             | 0.8962                  | 0.1056          | -0.6219              | -0.4144         | 0.9262          | 0.8756          | -0.1238               |
| 1528 | 1       | -1.991           | 0.9819              | -0.66                   |                 |                      |                 |                 |                 |                       |
| 1529 | 1       | -0.2872          | -0.7741             | 0.2641                  | -0.8266         | -0.004062            | -0.09656        | 0.6741          | -0.6166         | -1.016                |
| 1530 | 1       | -0.4412          | -1.018              | -0.48                   | -0.4206         | -0.8681              |                 | 0.12            | -0.6006         | -0.12                 |
| 1531 | 1       | -0.4112          | -0.1581             | -0.61                   | -0.6406         | 0.2119               | -0.5806         | 0.2             | 0.7194          | -2.79                 |
| 1532 | 1       | -2.26E-09        |                     | 0.4912                  | -1.619          | -0.4569              | -0.7694         |                 |                 | -0.1888               |
| 1533 | 1       | -0.3412          | -0.4581             | -0.05                   | -1.291          | -1.238               | -0.3506         | 0.97            | 1.109           | 0.73                  |
| 1534 | 1       | -0.5913          | -0.9481             | -0.15                   | -1.501          | -0.8081              | -0.7406         | 0.88            | 0.8094          | 0.15                  |
| 1535 | 1       | 0.36             | -0.2269             | -0.02875                | 0.07063         | -0.9369              | -0.8294         | 0.05125         | 0.000625        | 0.5213                |
| 1536 | 1       | 0.4888           | -0.6181             | -0.48                   | -0.1606         | -2.038               | -1.101          |                 | 1.229           | 0.45                  |
| 1537 | 1       | 0.6488           |                     | -0.42                   | -0.1106         |                      | -0.5406         |                 | 1.179           | 0.99                  |
| 1538 | 1       | -1.283           |                     | -0.6519                 | -1.943          | -2.79E-10            | -1.513          | 1.558           | 1.587           | -0.1219               |
| 1539 | 1       | -0.7412          | -0.4781             | -0.22                   | -1.111          | -0.9481              | -1.071          | 0.78            | 0.4994          |                       |
| 1540 | 1       | -0.03            | -0.5769             | -0.06875                | -0.3694         | -0.4869              | 0.000625        | 0.4612          | 0.7306          | -0.1187               |
| 1541 | 1       | -2.26E-09        |                     | -0.1288                 | 0.3506          | -0.6169              | 0.2106          | -1.359          | -0.6394         | -0.7588               |
| 1542 | 1       | -0.1212          |                     | 0.68                    | -0.08062        | 0.2719               | 0.4094          | 0.08            | -0.6406         | -0.13                 |
| 1543 | 1       | -1.431           | -1.948              | -0.96                   | -0.1506         | 0.2419               | 0.03938         | -3.31           | 0.009375        | -0.57                 |
| 1544 | 1       | -1.931           | -1.228              | -1.87                   | -0.3006         | 0.4619               | -0.3806         | -4.46           | -0.5306         | 0.3                   |
| 1545 | 1       | -1.352           | 0.02094             | -1.661                  | 0.03844         | 0.5609               | -0.06156        |                 | -0.1116         | -0.1709               |
| 1546 | 1       | 0.5888           | -0.4781             | 0.12                    | 0.1794          | -0.05812             | -0.09062        | 0               | -0.01062        | 0.21                  |
| 1547 | 1       | -2.26E-09        | -0.8269             | 1.581                   | -0.6894         | -1.927               | -0.5494         |                 | -3.279          | 1.551                 |
| 1548 | 1       | 0.6869           | 0                   | 0.2181                  | 1.217           | 0.46                 |                 | -0.8319         | -2.793          |                       |
| 1549 | 1       | -0.5312          | -1.208              | -0.94                   | -0.9606         | 0.04188              | -0.3406         |                 | -1.991          | 0.04                  |
| 1550 | 1       | -0.55            | -1.427              | -1.349                  | -0.7094         | 0.5831               | 0.000625        | -0.3088         | -0.1494         | 0.9913                |
| 1551 | 1       | -0.25            |                     | -2.339                  |                 | -1.037               | 0.000625        |                 |                 | -1.709                |
| 1552 | 1       | -0.125           | -1.102              | -1.244                  | -2.184          | -0.2919              |                 | -0.5438         | -0.2044         | -0.1238               |
| 1553 | 1       | -0.5312          | -0.3581             | -0.5                    | -0.2406         | -1.388               | 0.4294          | -0.15           | 0.5194          | 0.79                  |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C-CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1554 | 1       | -0.1106          | -0.2419             | -0.6194                | 0.53            | 3.183                | 0.91            | -0.7238        | -3.1            |                       |
| 1555 | 1       | 0.125            | -0.1469             | 0.3162                 | -0.1144         | 0.8781               | 0.7956          | -0.4788        | 0.000625        | -0.3838               |
| 1556 | 1       | 0.15             | -0.1469             | 0.3212                 | 0.1006          | -0.08687             | 0.5706          | -0.4044        | -1.455          | 0.7613                |
| 1557 | 1       | 0.2644           | -0.5981             | 0.5556                 | -0.585          | 0.5275               | 0.375           | -0.1206        | -0.11           | 0                     |
| 1558 | 1       | 0.7488           | -0.4781             | -0.3                   | 0.8294          | 1.132                | 0.1594          | -1.54          | -0.1606         | -0.12                 |
| 1559 | 1       | 0.6088           | 0.03094             | -0.03094               | 1.228           | 1.261                | 0.8184          | -0.09          | -2.662          | 0.5691                |
| 1560 | 1       | -0.09219         | 1.142               | -0.72                  | 0.8594          | 1.082                | -0.1906         | 0              | -1.511          | 0.55                  |
| 1561 | 1       | -0.6312          | -1.178              | -1.3                   | 0.3494          | -0.05812             | 0.2294          | -0.06875       | 0.6294          | 0.63                  |
| 1562 | 1       | -2.26E-09        | -1.517              | -0.9788                | 0.2306          | -0.9769              | -0.09938        | -3.13          | 0.5106          | 0.1712                |
| 1564 | 1       | 0.1588           | 1.062               | 0.24                   | -1.141          | -0.1981              | 2.749           | -2.431         | -2.431          | 1.82                  |
| 1565 | 1       | -0.4431          | 0                   | -0.2119                | -1.303          | 0.46                 | 2.657           |                |                 | 1.718                 |
| 1566 | 1       | 0.4488           | 1.452               | 0.74                   | -0.1006         | -0.5281              | 3.389           | -0.91          | -1.111          | 2.34                  |
| 1567 | 1       | 0.8734           | -0.8734             | -2.115                 | -1.476          | 1.647                | 2.784           |                |                 | 1.585                 |
| 1568 | 1       | -1.661           |                     | -2.07                  | -1.691          | 0.6419               | 1.849           |                |                 | -3.34                 |
| 1569 | 1       | -0.6531          | 0.4                 | 0.4081                 | 0.0075          | -2.79E-10            | 1.077           | -5.112         | -1.993          | -0.05188              |
| 1570 | 1       | -0.03875         | 0.9044              | -0.1675                | -0.7181         | -0.3181              | -0.5806         | 0.62           | 0.4994          | -0.3675               |
| 1571 | 1       | -0.9612          | -0.2481             | -0.08                  | -0.5206         | -0.9075              | -0.53           |                | -0.05           | -0.45                 |
| 1572 | 1       | -0.8006          |                     | -1.009                 | -0.08           | -0.62                | -0.6525         | 2.008          | 2.697           | -1.252                |
| 1573 | 1       | -1.253           | 0                   | -0.4019                | -0.01656        | -0.4781              | -0.1806         | 1.7            | 2.473           |                       |
| 1574 | 1       | -1.907           | 0.01594             | -0.7959                | -1.661          | -0.1169              | 0.000625        | 0.3412         | 0.3206          | 0.00125               |
| 1575 | 1       | -0.4812          | -0.2881             | -0.84                  | -0.5994         | -1.718               | -1.561          | 0.37           | 1.089           | 0.43                  |
| 1576 | 1       | -0.57            | -1.417              | -0.7688                | -1.221          | -0.4181              | -2.221          |                |                 |                       |
| 1577 | 1       | -0.5312          | 1.512               | -1.08                  | -0.4606         | -0.9769              | 0.000625        |                | -0.5894         | -1.369                |
| 1578 | 1       | -0.5312          |                     | -0.62                  |                 | -0.2741              | -1.287          |                | -2.797          | -3.206                |
| 1579 | 1       | -1.221           |                     | -1.26                  |                 | -0.07                | -0.1725         |                | -2.433          | 0.9381                |
| 1580 | 1       | -0.59            | 0.9931              | -0.5788                | 0.06063         | 0.2431               | -0.1094         |                |                 |                       |
| 1581 | 1       | -0.6012          |                     | -0.24                  | -1.211          | 0.6175               | 0.375           | -0.6744        | -0.365          | -1.454                |
| 1582 | 1       | -0.4372          | -0.2841             | 0.3641                 | -0.2766         | -0.8481              | 0.4694          | -1.13          | -0.6906         | -1.13                 |
| 1583 | 1       | -0.1331          | 0                   | -0.01188               | -0.5625         | -0.3675              | 0.27            | -1.22          | -1.22           | -1.259                |
| 1584 | 1       | -2.26E-09        | -0.7369             | -0.3644                | 0.005           | 0.5175               | 0.265           | -1.284         | -0.535          |                       |
| 1585 | 1       | -0.005625        | -0.6825             | -0.33                  | -0.1806         | -0.4312              | -1.414          | -0.6131        | -1.084          | -0.08313              |
| 1586 | 1       | -0.2412          | -1.278              | -0.4894                | -0.63           | -0.558               | -2.401          | -0.45          | -1.331          | 0.05                  |
| 1587 | 1       | -0.7406          | -0.6775             | -2.024                 | -0.745          | -0.9331              |                 |                |                 |                       |
| 1588 | 1       | -1.276           | -1.983              | -0.9331                | -1.554          | -1.558               |                 |                |                 |                       |
| 1589 | 1       | -0.04438         |                     | -1.01                  | -1.801          |                      |                 |                |                 |                       |
| 1590 | 1       | -0.3912          | -0.5581             |                        |                 |                      |                 |                |                 |                       |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C-CONF2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1591 | 1       | -2.26E-09        | -0.3269             | -1.159                 | -1.949          | -0.7069              | -1.549          | -1.599          | -1.059          | 3.891                 |
| 1592 | 1       | -2.26E-09        | -1.007              | 0.9212                 | 0.4106          | 3.283                | 2.631           | -0.4088         | -0.9394         | -0.4988               |
| 1593 | 1       | -0.7044          |                     | 0.1469                 | -1.124          | 0.4488               | 0.08625         | -1.143          | -0.9538         | -1.423                |
| 1594 | 1       | -1.103           | 0                   | -0.5719                | -1.513          | -0.33                | 0.1675          | -0.08188        | 0.0775          | 1.068                 |
| 1595 | 1       | -0.54            | -0.8069             | -0.07875               | 0.3106          | 0.9631               | 0.000625        | -2.319          | 0.9406          | -0.7287               |
| 1596 | 1       | -0.3556          | -0.8625             | 0.09562                | 0.615           | 0.6975               | -0.095          |                 | 1.335           | -0.1844               |
| 1597 | 1       | -0.29            | -0.4569             | 0.1612                 | 0.7706          | 1.133                | 0.000625        | -1.119          | 1.561           | -0.1587               |
| 1598 | 1       | -0.5112          | -0.7681             | -0.1                   | -0.000625       | 0.7819               | 0.1394          | 0.14            | 1.519           | -0.17                 |
| 1599 | 1       | -0.08            | -0.6869             |                        | -0.7994         | -1.207               | 0.08062         |                 |                 | -0.7088               |
| 1600 | 1       | -0.3412          | 0.9019              | 0.01                   | -1.271          | -0.8681              | 0.4894          |                 | -0.2106         |                       |
| 1601 | 1       | -0.07875         | -0.7556             | -0.2475                | -0.2081         | 0.6444               | 0.4219          | -0.6275         | -0.5081         | -0.1975               |
| 1602 | 1       | 0.06438          |                     | -0.4644                | -0.355          | 0.3275               |                 |                 |                 |                       |
| 1603 | 1       | 0.4028           | 0.1459              |                        | -0.1466         | 0.7159               | -0.8566         |                 |                 | -1.256                |
| 1604 | 1       | 0.4188           | -0.6581             | 0.28                   | -0.3706         | -1.038               | 0.06938         | -0.72           | -0.1706         | -0.15                 |
| 1605 | 1       | 0.05875          | -0.2681             | -0.24                  | -0.2806         | 1.042                | 2.479           |                 | -1.581          | -0.66                 |
| 1606 | 1       | 0.1294           | -0.5875             | 0.4606                 | 1.75            | -0.4075              | 1.06            |                 |                 | -2.359                |
| 1607 | 1       | -0.3912          | -1.118              | 0.05                   | 1.229           | 0.4719               | 0.3194          | -3.17           | -1.611          | 0                     |
| 1608 | 1       | -0.36            | -0.8969             | -0.4488                | 0.7006          | -0.7469              | 0.000625        | 0.3612          | 0.1206          | -0.07875              |
| 1609 | 1       | -0.1156          | 0.5775              | -1.204                 | -0.805          | -2.042               | -1.465          | 3.866           | -0.495          | -0.9344               |
| 1610 | 1       | -0.1412          | -0.3581             | -2.91E-09              | -0.5706         | 0.7019               | -0.2306         |                 |                 |                       |
| 1611 | 1       | -1.893           | 0                   | -2.702                 |                 | -1.11                |                 |                 | -1.773          | -2.892                |
| 1612 | 1       | -0.04125         | -1.328              | -0.68                  | 0.03938         | -0.01812             | -0.3906         | 0.93            | 1.069           | 0                     |
| 1613 | 1       | -0.7862          | 0.8369              | 0.125                  | -0.1256         |                      | -0.4756         |                 | -1.986          | -0.345                |
| 1614 | 1       | 0.009375         |                     | -0.8194                | -1.34           |                      | -1.62           |                 | -3.13           |                       |
| 1615 | 1       | -2.26E-09        | -0.01687            | 0.7412                 | -1.199          | -0.4169              | -0.7394         | 0.2112          | -1.409          | -0.7888               |
| 1616 | 1       | 0.4388           | -1.428              | -0.81                  | -0.000625       | -1.448               | -1.411          | 0.96            | 1.019           | -1.81                 |
| 1617 | 1       | -2.26E-09        | -1.157              | -0.5888                | 0.4706          | -1.227               | -1.319          | 1.291           | 1.921           | -1.189                |
| 1618 | 1       | -0.9912          | -1.648              | -1.11                  | 0.2394          |                      | -2.781          | 1.67            | 2.309           | -2.93                 |
| 1619 | 1       | 1.108            | 0.1809              | -0.5009                | -1.562          | -0.7291              | -0.9316         | 4.649           | 3.818           | -1.021                |
| 1620 | 1       | 1.809            | 0.9219              | -2.91E-09              | -1.871          | -0.6081              | -0.8406         | 5.31            | 4.369           | -2.12                 |
| 1621 | 1       | -0.6812          | -1.178              | -0.49                  | 0.1294          | 0.9619               | 1.209           | 3.15            | 3.119           | -1.38                 |
| 1622 | 1       | -0.1912          | -0.5681             | -0.1                   | 0.7494          | 2.042                | 1.569           | 3.29            | 3.349           | -1.32                 |
| 1623 | 1       | 0.4088           | -0.5281             | 0.03                   | -0.5006         | -1.468               | -1.611          | 2.8             | 0.9194          | -1.97                 |
| 1624 | 1       | 0.2356           | 1.489               | 1.467                  | -0.3638         |                      |                 |                 | -1.104          | -0.9931               |
| 1625 | 1       | -0.4412          | 0.3619              | 1.55                   | -0.4506         |                      | -0.01063        |                 | -1.661          | -2.63                 |
| 1626 | 1       | -0.09            |                     | 1.791                  | 0.4306          | -0.3569              | 0.09062         |                 |                 | -2.519                |
| 1627 | 1       | -2.26E-09        | -0.8069             | -0.5988                | -1.929          | -1.327               | -3.589          | 0.4812          | 1.261           | -1.179                |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1628 | 1       | -0.4212          |                     | -0.21                   | -0.9506         | -0.9081              | -0.2406         | -0.84           | -1.131          | -0.03                 |
| 1629 | 1       | -0.3462          | -0.4431             | -0.185                  | -0.8256         | -1.703               | -0.4856         | -0.735          | -0.9356         | 0.215                 |
| 1630 | 1       | 0.8838           |                     | 1.415                   | -1.356          | -0.1531              |                 |                 | -1.836          |                       |
| 1631 | 1       | 0.3887           | 0.7019              | -0.09                   | 1.169           | 0.05187              | -0.2206         |                 |                 | 1.25                  |
| 1632 | 1       | -1.327           | 0.2459              | -1.056                  | -1.637          | 1.566                | 1.133           | -0.7859         | -1.697          |                       |
| 1633 | 1       | -0.6712          | -1.808              | -1.19                   | 0.01938         | 0.2819               | 0.05938         | 0.83            | 0.5694          | -1.63                 |
| 1634 | 1       | 0.5188           | 0.05188             | 0.49                    | -0.000625       |                      | -3.271          |                 | -1.621          | -2.62                 |
| 1635 | 1       | -0.05125         | -0.8981             | -2.91E-09               |                 | 1.142                |                 | -0.24           | -0.07063        |                       |
| 1636 | 1       | -0.1712          | -0.2081             | -0.16                   | 0.009375        | -0.3981              | 0.2694          |                 | -0.000625       | 0.06                  |
| 1637 | 1       | 0.07875          | 0.1419              | -0.01                   | -0.2306         | -1.168               | -1.751          |                 | -1.681          | -0.58                 |
| 1638 | 1       | -0.09125         |                     | -0.22                   | -1.461          |                      | 0.01937         |                 |                 | -0.37                 |
| 1639 | 1       | -0.2412          | 0.2219              | -2.91E-09               | 0.08938         | 1.642                |                 |                 |                 | -0.92                 |
| 1640 | 1       | 0.08             | -0.7269             | -0.1688                 | 0.4706          | 0.3331               | 0.5906          | -0.4488         | 0.000625        | -0.6487               |
| 1641 | 1       | 1.231            |                     | 0.6125                  | -0.4581         | -0.7856              | -0.6781         |                 | -0.4081         | 0.6625                |
| 1642 | 1       | 0.1288           |                     | 1.07                    |                 | -0.9981              | -0.4206         | -0.4            | -1.191          | -0.63                 |
| 1643 | 1       | -2.26E-09        | -0.1169             | 1.441                   | -0.7194         | 1.063                | 2.441           |                 | -2.859          | -1.689                |
| 1644 | 1       | -0.5712          | 0.3019              | 1.04                    | -0.3306         | -0.01812             | 0.4194          | -1.86           | -1.841          | 0.32                  |
| 1645 | 1       | -2.26E-09        | 0.9831              | 2.091                   | 0.3106          | 0.01313              | 1.491           | -2.419          | -3.019          | -1.329                |
| 1646 | 1       | -0.6431          | 0                   | 1.058                   |                 | 0.91                 | 0.7075          | -1.162          | -0.8325         | 0.3681                |
| 1647 | 1       | -0.2213          | -0.5481             | 1.1                     | -0.5806         | 0.9719               | 0.3094          | -1.91           | -1.591          | 1.64                  |
| 1648 | 1       | -0.1756          |                     | 0.1456                  | -0.285          | 0.1575               | 0.105           | 0.3456          | -0.275          | -0.1044               |
| 1649 | 1       | -0.32            | -0.5469             | 0.8712                  | -0.1694         |                      |                 |                 |                 |                       |
| 1650 | 1       | 1.243            | -0.01406            | 0.04406                 | 0.7534          | -0.4241              | -0.01656        |                 | -0.4666         | 0.3841                |
| 1651 | 1       | 0.02875          |                     |                         | -0.000625       | 0.1619               | -0.3506         |                 | -0.9906         |                       |
| 1652 | 1       | -0.2612          | -1.388              | 0.27                    | -0.5406         | 0.5419               | 0.5194          |                 | -0.2606         | 1.63E-11              |
| 1653 | 1       | 0.7512           | -0.02563            | 0.8025                  | 0.09187         | -1.386               | -2.278          |                 | -0.07813        | -2.028                |
| 1654 | 1       | 0.1928           | -0.02406            | 0.8241                  | 0.1434          | -1.294               | -1.137          | -2.326          | -1.827          | -0.8659               |
| 1655 | 1       | -0.32            |                     | 0.1112                  | -0.7694         | -0.6269              | -0.7294         |                 | 0.000625        | 0.5412                |
| 1656 | 1       | 0.16             | -0.4169             | 0.3412                  | -0.009375       | 0.1431               | 0.000625        | -0.1288         | 0.000625        | -0.7287               |
| 1657 | 1       | 0.05438          | 0.7975              | 0.2456                  | 0.265           | -0.1225              |                 |                 |                 |                       |
| 1658 | 1       | -0.1512          | 0.3719              | 0.8                     | -0.1606         | 0.3319               | 0.9694          | 0               | -0.3306         | -0.6                  |
| 1659 | 1       | -0.145           | -0.4119             | -0.3038                 | 0.04563         | 0.5781               | -0.2144         |                 | -0.4344         | -0.4638               |
| 1660 | 1       | -0.5113          | -1.158              | -0.82                   | 0.2094          | 0.1419               | -0.4206         | -0.41           | 0.02937         | 0.32                  |
| 1661 | 1       | -0.5906          | 1.203               | -0.8694                 | -0.42           | -0.0475              | 0.04            |                 | -0.38           | -1.259                |
| 1662 | 1       | -0.3012          | -1.048              | -0.82                   | 0.06938         | -1.128               | -0.2106         | -0.83           | 0.7894          | -0.32                 |
| 1663 | 1       | 0.3769           | -0.34               | 0.1081                  | 0.3875          | -2.79E-10            | 0.6675          | 0.2681          | 2.217           |                       |
| 1664 | 1       | 0.1612           | 0.2344              | 0.0825                  | 1.032           | -0.3756              | 0.8619          | -1.958          | -1.168          | 1.042                 |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONF12<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|----------------|-----------------|-----------------------|
| 1665 | 1       | -0.4462          | 0.1869              | 0.135                   | -0.9456         | -0.8031              | -0.8456         | -0.295         | -1.016          | 0.125                 |
| 1666 | 1       | -0.07719         | 0.2359              | -0.08594                | -0.02656        | 0.02594              |                 |                | -0.9866         | 0.7641                |
| 1667 | 1       | -0.8112          |                     |                         | 0.1194          | 0.1419               | -0.2006         |                | -0.9606         |                       |
| 1668 | 1       | 0.1              | -0.1669             | -0.5588                 | 0.1306          | -0.6069              | 0.3706          | 0.6312         | 0.000625        | -1.679                |
| 1669 | 1       | -0.07062         | -0.6175             | -1.159                  | -0.59           | -0.7875              | -0.27           | 0.07062        | 0.27            | 0.3906                |
| 1670 | 1       | -0.6906          | 1.013               | -0.2094                 | -1.07           |                      | -1.61           |                | 0.03            | -0.1294               |
| 1671 | 1       | 1.749            | 1.202               | 2.32                    | 1.599           | -0.3781              | 1.179           | -2.16          | -2.421          | -0.52                 |
| 1672 | 1       | 0.2987           | -0.2681             | 0.33                    | 0.8394          | 0.09187              | 0.9194          | -1.09          | -3.381          | -1.06                 |
| 1673 | 1       | -2.26E-09        | 0.2131              | 0.4712                  | 1.191           | 1.273                | 1.581           | -1.379         | -4.959          | -1.379                |
| 1674 | 1       | -0.37            | 1.433               | -0.5888                 | -1.289          | 0.3531               | 0.000625        | 0.72           | -1.619          | 0.4413                |
| 1675 | 1       | 1.179            | 1.062               | 1.21                    | 0.6994          | 0.6119               | 1.449           |                | -8.206          | -0.89                 |
| 1676 | 1       | 1.11             | 0.7831              | 0.8712                  | 0.7206          | 0.1331               | 0.6506          |                | -1.279          | -0.4288               |
| 1677 | 1       | -0.2512          | -0.9881             | -0.24                   | 0.5794          |                      |                 | 0.14           | 0.9794          | -0.23                 |
| 1678 | 1       | 0.6188           | -0.3181             | 0.01                    | -0.000625       | 0.5119               | 0.4594          | -0.07          | -0.8906         | -0.6                  |
| 1679 | 1       | 1.747            | 0.6                 | 1.658                   | 1.677           | -2.79E-10            | 1.667           | 1.008          | 1.257           | -1.942                |
| 1680 | 1       | 0.6712           | 0.7544              | 0.8125                  | 0.7619          | 0.2744               |                 |                | 2.022           | 0.6725                |
| 1681 | 1       | 0.2712           | -0.6756             | 0.2825                  | 0.1419          | -0.4256              | 0.0187          | 0.0225         | 0.4019          | -0.5175               |
| 1682 | 1       | 0.6988           | -0.3281             | 0.5                     | 0.5094          | 0.1419               | 0.5994          | -0.78          | -0.3806         | -1.45                 |
| 1683 | 1       | -0.4131          | -1.15               | 0.05812                 | -0.2325         | -2.79E-10            | 0.4275          | 0.1081         | 0.2075          | -1.792                |
| 1684 | 1       | 0.4069           | 0.03                | 0.5181                  | -0.3125         | -2.79E-10            | 0.4775          | -1.062         | -0.0525         | 0.3881                |
| 1685 | 1       | 0.3088           | -0.5081             | 0.94                    | -0.000625       | 0.6519               | 1.839           | 0.2            | 0.9594          | -1.49                 |
| 1686 | 1       | 0.6188           | -0.4881             | 1.15                    | 0.1794          | -1.202               | 1.999           | 0              | 0.7594          | -1.81                 |
| 1687 | 1       | 0.6387           |                     | 0.41                    | 0.4694          | -0.3181              | 0.07937         | 0.18           | 0.2794          |                       |
| 1688 | 1       | 0.6788           | 0.2219              | 1                       | -0.3306         | -0.3181              | 0.4194          | -0.46          | 0.1094          | -1.52                 |
| 1689 | 1       | 0.6987           | 0.2519              | 1.27                    | 0.05937         | -1.458               | 0.1594          | -1.17          | -1.211          | 0.61                  |
| 1690 | 1       | 0.5878           | 0.4809              | -0.2209                 | 0.2684          | -0.1591              | -0.5116         |                |                 |                       |
| 1691 | 1       | -0.7912          | -1.628              | -2.91E-09               | 0.3794          | 0.2419               | 0.1194          | -1.16          | -0.3706         | -2.54                 |
| 1692 | 1       | 0.5788           | -0.6481             | -2.91E-09               | -0.3606         | 1.012                | 0.3394          | -1.6           | -0.4806         | -0.8                  |
| 1693 | 1       | 0.1744           | -0.7025             | -0.1744                 | -0.525          | 0.6475               | 0.275           | -1.874         | -0.445          | -0.7444               |
| 1694 | 1       | -0.2412          | -1.118              | -0.49                   | 0.3194          | 0.3819               | -0.09062        | 0              | 0.1494          | -0.05                 |
| 1695 | 1       | 0.14             | -1.487              | -0.7388                 | -0.1294         | 0.07313              | 0.000625        | -0.7288        | 0.09062         | -0.00875              |
| 1696 | 1       | -0.5612          |                     | -0.4                    | -0.3306         | 0.3219               | 0.6594          |                | 0.02938         | 0.31                  |
| 1697 | 1       | 0.1412           | 0.2744              | 0.2225                  | -0.3381         | 0.6944               | 0.4019          | -1.908         | -2.308          | -1.428                |
| 1698 | 1       | 0.1888           | 0.02188             | 1.22                    | -0.2406         | 1.182                | 2.559           | -0.3           | -0.3806         |                       |
| 1699 | 1       | -0.8262          | -1.143              | 0.915                   | 0.9244          | 1.217                | 1.144           | 0.085          | 0.6744          | -1.025                |
| 1700 | 1       | -0.6612          | -0.6081             | -0.47                   | -1.101          | -0.03812             | 0.06937         | -0.45          | 0.5994          | 0.78                  |
| 1701 | 1       | 0.18             | -0.3969             | -0.02875                | -1.109          | -0.8669              | -0.2894         | -0.1688        | -0.8994         | 0.1212                |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRYDX | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1702 | 1       | -1.036           | 0.8169              |                         | -1.666          |                      | -1.176          |                 |                 | -2.225                |
| 1703 | 1       | -0.3113          | 0.02187             | -0.99                   | 1.879           |                      | 1.449           |                 | -0.8806         | 0.73                  |
| 1704 | 1       | -0.5712          |                     | -0.1                    |                 | -0.2781              |                 |                 | -2.051          | -1.95                 |
| 1705 | 1       | -0.2012          | 0.1919              | -2.91E-09               | -0.8006         | 0.8719               | 0.2894          | -0.82           | -0.3806         |                       |
| 1706 | 1       | -0.1916          | -1.198              | -0.2403                 | 0.1391          | 0.04156              | 1.719           |                 | -0.04094        | -1.55                 |
| 1707 | 1       | -0.00125         | 0.05187             | -0.47                   | -0.1206         | 0.9519               | 2.549           | -0.37           | -0.2006         | -1.49                 |
| 1708 | 1       | -0.2912          | 0.7919              | -2.91E-09               | -2.141          | -1.738               | 2.379           | -2.63           | -2.511          | -1.49                 |
| 1709 | 1       | -2.26E-09        | 0.08313             | 0.5712                  | -0.02938        | -0.3669              |                 | -0.4988         | 0.1106          |                       |
| 1710 | 1       | -0.1512          | -0.8381             | -0.45                   | 0.08938         | 1.082                | -0.1406         | 0               | 0.3294          | -0.45                 |
| 1711 | 1       | -0.2406          | 0.5025              |                         | -0.39           |                      | 0.46            | 0.5106          | -0.14           | -0.3594               |
| 1712 | 1       | -0.39            | -0.2969             | -0.2788                 | -0.2694         | -0.6269              | -0.2094         | -0.3688         | 0.00625         | 0.2213                |
| 1713 | 1       | 0.1978           |                     | 0.3891                  | 0.06844         | -0.06906             | 0.1884          |                 | -1.012          | -0.8009               |
| 1714 | 1       | 0.2788           | -0.2981             | 0.24                    | -0.00625        | -0.5481              | 0.1094          |                 | -0.5106         |                       |
| 1715 | 1       | 0.3988           | -0.5281             | 0.39                    | 0.6894          | 0.03188              | 0.8894          | -1.71           | -0.3006         | -0.06                 |
| 1716 | 1       | 0.7288           | -0.3081             | 0.61                    | 0.4094          | -0.7781              | 0.6194          | -2.54           | -0.4206         | -0.06                 |
| 1717 | 1       | 0.1888           | 0.2319              | 0.8                     | -0.00625        | -0.6081              | 0.05937         | -1.38           | -1.461          | -1.09                 |
| 1718 | 1       | -0.4612          | -0.4181             | -0.53                   | -0.09062        | -0.6881              | -0.2506         |                 | 0.2894          | 0.08                  |
| 1719 | 1       | -0.2413          | -0.2481             | -0.54                   | -0.3006         | -1.088               | -0.3606         | -0.17           | 0.1294          | 0.32                  |
| 1720 | 1       | -0.8012          | -1.568              | -1.07                   | 0.08938         | -0.2081              | -0.4906         |                 | 0.1094          | 0                     |
| 1721 | 1       | 0.2512           | 0.4144              | 0.5225                  | 0.2219          | 0.6744               | 0.2119          |                 | -1.838          | -0.9375               |
| 1722 | 1       | -0.3712          |                     | -0.11                   | -0.8306         | -0.6481              | 0.5094          |                 |                 | 0                     |
| 1723 | 1       | 0.8688           | -0.09812            | -2.91E-09               | 0.3194          | -0.1819              | -0.7306         | -0.25           | -0.7106         | 0.02                  |
| 1724 | 1       | 1.337            | -0.62               | -0.7119                 | 1.067           | -2.79E-10            | 0.8675          | -0.8819         | -0.9125         | -1.072                |
| 1725 | 1       | 0.7069           | 0                   | 0.2381                  | 0.6175          | 0.56                 | 0.8675          | -0.7419         | -0.3825         | -0.08188              |
| 1726 | 1       | 1.479            | -0.1981             | 0.24                    | 1.369           | 1.522                | 1.079           | 0.29            | 0.4694          | 1.47                  |
| 1727 | 1       | 0.2888           | -0.9281             | -2.91E-09               | 1.039           | 1.612                | 1.319           | 0.31            | 0.4794          | -1.36                 |
| 1728 | 1       | 0.1428           | -0.2741             | -0.06594                | -0.8466         | -0.05406             | -0.5766         |                 | 0.07344         | 0.05406               |
| 1729 | 1       | -0.5188          | -1.026              | -0.1875                 | 0.2719          | 1.094                | 0.4819          | -0.5875         | -0.1381         | -1.108                |
| 1730 | 1       | 0.1588           |                     | -1.15                   | 0.4294          | -0.8581              | -0.09063        | 0.81            | 0.8394          | -0.85                 |
| 1731 | 1       | -0.2512          |                     | 0.49                    | -0.4806         | 0.7619               | -0.1906         |                 | -0.2706         | 1.83                  |
| 1732 | 1       | 0.9988           | -0.1881             | -2.91E-09               | -0.2206         |                      |                 | 0.88            | 0.3794          | -0.43                 |
| 1733 | 1       | 0.7191           | 0.1122              | 0.5403                  | 1.04            | 0.6722               | 1.45            | -0.9597         | -0.6603         | -0.6097               |
| 1734 | 1       | 0.8178           | -0.1391             | -0.2309                 | 0.1384          | -1.339               | -2.832          | 1.329           | 1.538           | 0.3591                |
| 1735 | 1       | 0.52             | -0.3669             | -0.8788                 | 1.261           | -0.5369              | -0.5094         | 0.8512          | 1.071           | 2.621                 |
| 1736 | 1       | -1.37            | -1.857              | -1.019                  | -0.6194         | -0.2069              | 0.4406          |                 | 0.3806          | -0.6687               |
| 1737 | 1       | -0.08875         | -0.3356             | -0.4675                 | -1.018          | -0.5656              | -0.9281         | 3.262           | 1.662           | 0.0225                |
| 1738 | 1       | -1.526           | -1.363              | -2.285                  | -0.07562        | -0.9831              | -2.966          |                 | 1.344           | 1.055                 |

Table 2

|      | GWEIGHT | HMEC-C<br>ARRY2X | HMEC+INFA<br>ARRY4X | HMEC-C_CONFL2<br>ARRY3X | 184AA<br>ARRY5X | 184A1-LATE<br>ARRY1X | 184B5<br>ARRY0X | HMVEC<br>ARRY7X | HUVEC<br>ARRY6X | MDA-MB-321<br>ARRY11X |
|------|---------|------------------|---------------------|-------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|-----------------------|
| 1739 | 1       | 0.1688           | -1.258              | -0.43                   | -0.8106         |                      | -1.821          | 3.38            | 2.389           | 0                     |
| 1740 | 1       | -0.005625        |                     | -0.6844                 | -0.855          | 0.0275               | -2.065          | 1.696           | 2.285           | -0.4544               |
| 1741 | 1       | -0.1256          | -0.8425             | -0.6844                 | -1.705          | 0.5375               | -2.325          | 1.536           | 2.545           | 1.966                 |
| 1742 | 1       | -0.2313          | -1.218              | -0.78                   | -0.6006         | -2.528               | -1.221          | 2.17            | 2.799           | 0.38                  |
| 1743 | 1       | 0.00875          | -1.268              | -0.93                   | -1.331          | -2.198               | -1.141          | 0.76            | 2.059           | 2.47                  |
| 1744 | 1       | -2.719           | -2.416              | -1.558                  | -3.448          | -2.766               | -3.988          | 0.5425          | 0.8419          | 0.3825                |
| 1745 | 1       | -0.2388          | -0.2956             | -0.6775                 | -0.2681         | -1.256               | -2.338          |                 | 0.8119          | 0.9525                |
| 1746 | 1       | -1.66            | -1.857              | -1.219                  | -1.279          | 1.703                | -0.9794         | 1.341           | 0.9806          | 1.671                 |
| 1747 | 1       | 0.2738           | 0.1769              | -0.035                  |                 | -1.293               | -5.716          | 0.725           | 0.8444          | -2.965                |
| 1748 | 1       | 0.2578           | 0.01094             | 0.1091                  | -0.01156        | 1.131                | -0.3716         |                 |                 | 0.7891                |
| 1749 | 1       | -0.1812          | 0.4419              | 0.04                    | 0.1794          | -0.9381              | 0.03937         | -0.75           | -0.6706         | 0.26                  |
| 1750 | 1       | -0.1172          | 0.2959              |                         | -0.1866         | -0.04406             | -1.767          |                 |                 | -1.126                |
| 1751 | 1       | -2.26E-09        | -1.097              | -0.8288                 | -0.02938        | -0.2769              | -0.5894         | -0.1388         | 0.1506          | 0.1112                |
| 1752 | 1       | -2.446           |                     | -2.025                  |                 |                      |                 |                 |                 | 2.435                 |
| 1753 | 1       | 1.251            | 1.044               | 0.9619                  | 1.541           | -1.106               | -0.09875        |                 | -0.4388         | 1.842                 |



Table 2

| SW872   | BT-549    | HS578T    | RPM1-8226 | MOLT4   | NB4+ATRA | SK-BR-3  | BT-474  | MCF7-NCI | T47D     |
|---------|-----------|-----------|-----------|---------|----------|----------|---------|----------|----------|
| ARRY8X  | ARRY10X   | ARRY9X    | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X  | ARRY13X | ARRY15X  | ARRY14X  |
| 1       | 1         | 1         | 1         | 1       | 1        | 1        | 1       | 1        | 1        |
| 1.675   | -0.865    | 0.915     |           |         | -4.347   | 0.735    | -3.365  | 0.735    |          |
| 1.646   | 0.2056    | 0.4156    | -3.134    | 0.6544  | -4.497   | 1.066    | 1.486   | 0.03563  | -0.7744  |
| 1.361   | -0.4894   |           | -1.779    | 0.3694  | 0.9081   | -0.5794  | -0.1994 | 0.1206   | -1.239   |
| 1.671   | 0.3112    |           | -2.319    | -1.62   | 1.629    |          |         | 0.6513   |          |
| 0.2725  | -0.0675   | 1.132     | -0.5775   | 0.00125 |          | 0.1525   | 0.1025  | -0.2475  |          |
| 0.97    | 0.1       | -1.65E-08 | 0.53      | 0.7287  | 1.348    | -0.07    | -0.15   | 0        | -2.61    |
| 1.29    | -0.2      | 0.17      | 0.57      | 0.8487  | 1.448    | -0.35    | -0.16   | 0        | -2.31    |
| 0.55    | -0.16     | 0.49      | 0.47      | 0.1488  | 0.9275   | -0.65    | -0.54   | -0.28    | -1.71    |
| 0.565   | -0.795    | -0.405    | -0.075    | 0.6338  | 0.6425   | 0.445    | -1.495  | 0.095    | 0.265    |
| 0.39    | -1.47E-09 | 1.56      | 0         | -1.651  |          | -0.87    | -0.04   | -0.01    | -1.93    |
| -0.7244 | -0.2544   | 0.4456    | 0.5656    | -0.9256 | -1.067   |          | -1.674  | -0.8844  | -1.084   |
| 0.88    | 0.58      | 1.96      |           | -1.191  | -2.242   |          | -0.47   | -0.58    | -0.32    |
| 0       | -0.1      | 0.59      | -1.09     | -1.451  | -1.412   | 1.09     | -0.34   | 0.08     | -1.55    |
| 1.392   | -0.3775   | 0.4325    | 0.0725    | -1.829  | 0        | 1.622    | 2.082   | -0.4875  | -0.7375  |
| 0.7763  | -0.09375  | 0.2962    | -0.8438   | 0.095   |          |          |         | -1.674   |          |
| 1.201   | -0.2488   | 0.4512    | -1.799    | 0.05    |          | 0.3912   | 0.1913  | -0.04875 | -0.09875 |
| 0.4841  | -0.01594  | 1.504     | 1.474     | -0.8272 | -0.6584  | -0.7459  | -0.1959 | -0.3859  | -0.1259  |
| 4.174   | 3.824     | 2.804     | -0.2859   | -4.087  |          | -0.01594 | -0.3759 | 1.614    | 1.304    |
| 5.61    | 3.12      | 1.25      | 0.89      | -0.7512 | -0.5125  | 0.13     | 0.4     | 0.59     | -0.13    |
| 3.74    | 5.4       | -0.11     | 1.1       | -0.7613 | 0.1175   | 4.05     | 0       | 0.12     | -0.72    |
| 4.501   | 6.461     | 0.1306    | 0.3206    | -1.291  | -2.632   | 1.741    |         | -0.7994  | 0.7006   |
| 2.51    | 3.9       | 0.22      | -0.02     | -0.7512 | -1.172   | 0.86     | 0.42    | 1.82     | 0.72     |
| -0.94   | 0.18      | 0.43      | -0.08     | -2.041  | 2.318    | 0        | -2.41   | -0.01    | 0.38     |
| 1.16    | 1.19      | 0.84      | -1.73     | -0.8413 | 2.108    | 1.83     | -1.53   | 0        | -1.29    |
| 1.135   | 1.225     | 0.415     | -2.805    |         | 2.412    | 1.575    |         | -0.415   |          |
| 0.8512  | -0.7388   | 0.8012    | -2.269    | -0.47   |          | -1.129   | -1.149  | -1.469   | -2.749   |
| 1.754   | -0.2959   | 1.024     | -0.8259   |         | -1.978   | -0.5959  | -0.4659 | 1.364    | 0.2741   |
| 1.945   | 1.435     | 2.805     | -0.025    | 4.034   | 0.8425   | -2.845   | -0.575  | 0.025    |          |
| 0.81    | 0.11      | 0.27      | 0.1       | 0.7088  | 0.1375   | -1.51    | -1.16   | -0.93    | -0.16    |
| 5.23    | 0.53      | 1.25      | -1.07     | 0.8288  | -2.052   | -1.19    | 0.34    | -0.32    | -1.15    |
| 5.725   | 0.8447    | 2.275     | -1.485    | -0.2866 | -2.048   | -2.025   | 0.1447  | -0.07531 | -0.1053  |
| 2.48    | -0.15     | -0.14     |           |         |          | -1.46    | 1.04    | -0.02    | 0.02     |
| 4.145   | 1.285     |           | 0.075     |         | -0.9675  | -2.045   | -1.725  | -0.075   |          |
| 3.17    | 0.84      | 0         | 0.52      | -0.9212 | -0.7525  |          | 0.49    | 0.78     | -0.02    |
| 0.33    | -1.14     | 0.57      | -1.04     | -1.621  | -2.022   | 0.24     |         | -1.05    | -1.4     |
| 0.7141  | -0.2559   | -0.03594  | -2.096    | -1.837  | -0.4784  | 0.1641   | -0.2459 | -0.4959  | 0.05406  |

Table 2

| SW872     | BT-549  | HS578T  | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474   | MCF7-NCI | T47D     |
|-----------|---------|---------|-----------|----------|----------|---------|----------|----------|----------|
| ARRY8X    | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X  | ARRY14X  |
| 0.71      | 0.44    | 0       | -2.19     | 0.9288   | -0.2625  |         | -1.05    | -0.46    | 0.31     |
| 3.282     | -1.008  | 0.9625  | 0.9125    | 4.421    | 0        | -0.5575 |          | 0.7425   | -0.0375  |
| 3.05      | 0       | 0.7     | 0.9       | 4.189    | 0.2575   | -0.42   | -0.59    | 0.56     | -0.32    |
| -0.225    | 1.625   | 1.745   | -1.135    | 3.049    | 0.0575   | -2.755  | 0.335    | 0.225    | -2.495   |
| 0         | 1.37    | 1.61    | -2.44     | 3.049    | 0.0575   | -2.56   | 0.81     | 0.73     | -0.15    |
| 0.89      | 2.68    | 2.36    | -1.06     | 3.179    | -0.4825  | -0.92   | 1.45     | 1.27     | 5.37E-10 |
| 2.51      | 0.6     | 2.31    | 0.13      | 2.879    | -0.3025  | -1.24   | 1.29     | 0.17     |          |
| 1.364     | 1.064   | 2.244   | 3.694     | 2.103    | -1.448   |         | -0.05594 | -0.5859  | -0.1359  |
| 0.9725    | 0.1725  | 2.032   | -1.778    | -0.06875 | 0        | -2.598  | -1.068   | -0.9475  | -1.168   |
| 0.3456    | 1.186   | 1.136   | -0.8144   |          | -1.457   | -1.504  | -0.8144  | -0.9744  | -0.9744  |
| 3.331     | 3.771   | 2.051   | -1.609    | -0.1306  |          | -2.529  | 2.211    | 0.1206   | -1.909   |
| 1.506     | 0.8756  | 2.786   | -2.614    | -1.826   | 0.8831   | -0.2344 | -0.4144  | 0.7556   | -1.954   |
| 0.1412    | 1.111   | 2.901   |           | -1.4     |          |         | -0.08875 | -0.9187  |          |
| 0         | -0.37   | 2.61    | -1.43     |          | 0.4675   | 1.28    | 0.94     | 0.85     | -1.1     |
| 1.031     | -1.219  |         | -1.269    | -0.19    |          | -1.919  | -0.6787  | -1.319   | -0.5888  |
| -0.17     | 0       | 0.25    | -0.85     | 1.529    | 1.148    | -0.17   | -0.75    | -0.63    |          |
| 0.1491    | 0.2691  | 1.049   | -1.151    | 1.728    | -2.513   | -1.491  | -0.6009  | -0.03094 | -1.951   |
| 0.3606    | -1.089  | -0.1594 | -0.4194   | -0.2206  |          | 1.361   | 1.411    | -0.1494  | -0.4994  |
| -0.4875   | -0.4275 | 0.0025  | -0.0575   | -0.8388  | 0        | -0.9975 | -0.9075  | 0.4125   | 0.4325   |
| -0.5675   | -0.4875 | 0.9325  | 0.1825    |          | 0        | -0.2175 | 1.012    | -0.0775  | 0.2325   |
| -0.485    | 0.035   | 0.745   | -0.545    | 3.154    | 3.233    | -1.485  | -0.405   | -0.345   | -0.035   |
| -1.458    | -0.8275 | -0.0475 | 4.652     | 2.231    | 0        |         |          | -1.008   |          |
| 0         | -1.88   | 0.37    | 5.5       | 5.089    | 3.188    |         | -0.42    | 0.46     | -1.03    |
| 0.02906   | -0.4809 | 0.3691  | 4.169     | 0.5578   | 0.1566   | -0.9809 | 0.4691   | -0.1809  | 0.2091   |
| 1.255     | 1.865   | 4.145   | -0.025    | -0.08625 |          |         | 0.805    | -0.655   | -2.105   |
| 0.97      | 0.74    | 0.5     | -0.16     | -0.6112  | -1.762   | -1.15   | -0.73    | 0.07     | -1.58    |
| 1.101     | 0.08125 | 2.291   | -0.9888   | -1.91    |          |         | 0.3413   | -0.7187  | -0.2288  |
| 1.541     | 0.4112  | 1.251   | -0.6588   | -0.32    | -1.961   | -1.929  |          |          | -0.7388  |
| 0.75      | 0       | 0.36    | -0.68     |          |          |         |          | -0.77    | 0.43     |
|           | -0.13   | 1.02    | -0.42     |          | 1.688    | 0       | -0.5     | 0.05     |          |
| 0         | 1.42    |         | -0.83     | 2.999    |          |         |          | -0.6     |          |
| -0.495    | 0.335   | 0.635   | -0.025    | 0.1738   | 0.0825   | 0.595   | -0.195   | -0.175   |          |
| 0.44      | 0.23    | 0.92    | 0.39      | -0.1612  | -0.2425  | 1.17    | -0.09    | -0.34    | -0.76    |
| -8.20E-09 | -0.34   | -0.06   | -0.69     |          | -1.542   | -1.39   | 0        | -0.73    | 0.34     |
| 1.9       | 0.07    | 0.84    | -1.71     |          | -0.3525  | -0.98   | -0.45    | -0.5     | 0.82     |
| 2.23      | -0.08   | 2.19    | -1.27     | 1.299    |          | -0.73   | 4.02E-09 | -0.54    | -1.57    |
| 1.53      | 3.02    | 1.78    | -0.23     | -0.8813  |          |         | 0        | -0.57    | 0.18     |

Table 2

| SW872     | BT-549  | HS578T  | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474   | MC7-NCI | T47D    |
|-----------|---------|---------|-----------|---------|----------|---------|----------|---------|---------|
| ARRY8X    | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X | ARRY14X |
| 2.12      | 2.92    | 2.87    |           | -1.871  |          | 0.02    | 0        | -0.04   | 0.31    |
| -0.2788   | 0.4112  | 0.8712  | 4.161     | 0.2     | -2.531   | -0.4288 | -1.199   | -1.599  | -0.1688 |
| -0.7531   | 0.7369  | 0.4669  | 4.327     | 0.1256  | -2.776   | -0.5731 | -2.123   | -3.003  | -2.153  |
| -0.6      | 1.17    | 2.24    | 0.07      |         |          | 0       | -1.88    | -1.69   | -1.94   |
| 1.79      | -0.75   | 0.04    | -0.69     |         | -1.522   | -1.42   | -0.96    | 0.26    | -1.3    |
| 4.242     | -0.7075 | -0.0175 | -0.1975   | 0.00125 | -4.34    | -1.198  | -1.947   | -2.827  | -3.858  |
| 3.58      | 0.16    |         | -0.16     | -0.7012 | -1.362   | -2.6    | -3.39    | -2.27   | -0.88   |
| 2.869     | -0.7209 | 1.059   | -0.8109   | 1.818   | -1.513   | -1.311  | -2.121   | -1.081  | -1.351  |
| 5.128     | 0.1481  | 4.838   | 0.2981    | -0.8231 | 0.5356   | -0.7219 | 0.9781   | 0.5181  | -0.3619 |
| 5.171     | 0.3106  | 4.611   | -0.1794   | -0.7606 | -1.002   | -0.8794 | 0.8706   | 0.4306  | 0.3306  |
| 0.7       | 0.78    | 2.89    | -0.19     |         | 1.538    | -1      | 0.66     | -0.05   | -0.14   |
| 0.005     | 3.775   | 3.775   | -0.205    | 0.7838  | -1.147   | -0.275  | 0.875    | -0.005  |         |
| 0         | 4.65    | 4.65    | -0.69     | 0.2388  | -0.4225  |         |          | -0.33   | -0.77   |
| -2.03     | 2.88    |         | -1.65     | -1.451  | -2.452   | -0.66   | -1.06    | 1.14    | -0.33   |
| 3.491     | 3.651   | 2.631   | 0.2812    |         |          |         | -0.5487  | -0.4287 |         |
| 2.971     | 3.131   | 4.001   | -0.2394   | -0.8006 | -2.882   |         | 0.03063  | -1.199  | -0.3994 |
| 1.869     | 1.339   | 3.389   | -1.771    |         |          | -3.351  | -0.2709  | -2.281  |         |
| -0.01875  | 0.6712  | 1.451   | -2.029    | -1.83   | -2.171   | -2.659  | -1.099   | -1.309  | -0.3587 |
| -0.8487   | 0.1012  | 1.831   | -3.999    | -1.6    | -1.841   | -3.119  | -1.759   | -1.949  | -1.529  |
| -0.9759   | 0.01406 | 0.8941  | 0.9841    | -2.937  | -0.7784  | -2.576  | -1.546   | -2.506  | -1.536  |
| -1        | 0.52    | 0       |           | -4.821  |          | -4.04   |          | -1.72   |         |
| 0.4481    | 1.008   | 1.668   | -1.792    | -1.113  | -0.6644  | -1.852  | -0.9319  | -1.842  | -1.592  |
| 0.96      | 1.03    | 2.74    | -2.09     | 0.2788  | -1.872   | -3.21   | -0.85    | -1.36   | -1.97   |
| 1.14      | 1.1     | 2.57    | -1.14     | 0.5388  | -2.332   | -3.26   | -1.16    | -1.82   | -1.94   |
| 2.224     | 2.834   | 3.614   | -0.8159   | -2.467  | -2.548   | -2.786  | -0.07594 | -2.036  |         |
| 2.499     | 1.909   | 4.029   | -3.801    | -1.602  | -0.6634  | -4.921  | -0.4509  | -2.851  |         |
| 3.01      | 2.15    | 3.78    |           | -1.111  | -0.7325  |         | 0        | -1.1    | -1.91   |
| 2.68      | 2.5     | 3.94    | -2.68     | -1.901  | -1.442   |         | 0.05     | -1.93   | -2.76   |
| -0.2809   | 4.159   | 4.719   | -2.561    |         | -1.383   | -0.2609 | 0.9291   | -1.611  | -0.9009 |
| -0.7319   | 2.488   | 3.078   | -1.752    | -1.183  |          | -0.5919 | 0.4681   | -1.282  |         |
| 0.495     | 1.995   | 4.385   | 0.675     | -0.8262 | -1.847   | -2.145  | 0.125    | -1.485  |         |
| 0.23      | 1.41    | 3.71    | -1.76     | 0.4788  | -2.322   | -2.56   | 0.15     | -2.49   | -1.26   |
| 3.498     | 4.578   | 3.608   | -2.152    | -1.583  | -2.514   | -2.272  | -0.4219  | -1.302  | -1.712  |
| 2         | 1.14    | 2.38    | -1.32     | -2.001  | -1.542   | -2.2    | 0        | 0.36    | -0.16   |
| 0.8625    | 3.692   | 3.482   | -1.438    | 0.00125 | -3.22    | -0.8375 | -0.2775  | -1.967  | -0.1875 |
| -0.015    | 0.735   | 2.315   | -3.915    |         | -0.5375  | -2.615  | -1.495   | -3.375  | -3.575  |
| -8.20E-09 | 2.04    | 4.64    | -2.95     | -2.751  |          | -1.48   | 0        | -2      |         |

Table 2

| SW872  | BT-549     | HS578T | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|--------|------------|--------|-----------|---------|----------|---------|---------|----------|----------|
| ARRY8X | ARRY10X    | ARRY9X | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| 0      | 2.19       | 4.31   | -1.61     |         |          |         | -0.2    | -2.83    |          |
| 0.26   | 2.82       | 1.92   | -1.8      | 0.1488  | -1.462   | -2.12   | -0.76   | -2.27    | -1.3     |
| 2.15   | -0.04      | 0.44   | -2.41     | -1.871  | -2.632   |         | -0.91   | -0.28    | -1.1     |
| 1.46   | 0          | 1.5    | -0.29     | -0.9812 | -0.9825  | -1.3    | -0.92   | 1.02     | -0.45    |
| 0.5681 | 3.798      | 3.658  | -2.602    | -1.233  | -0.9944  | 0.02812 | 0.1781  | -0.5719  | -1.362   |
| 0.59   | 3.72       | 3.78   | -0.68     | -0.5812 | -0.5625  | 0       | 0.25    | -0.11    | -0.42    |
| 0.1281 | 3.748      | 3.568  | -1.552    | -0.6531 | -0.9444  | 0.1781  | 0.6981  | -0.2119  | -0.6319  |
| 3.551  | 2.331      | 2.391  | -1.659    | 1.169   | -1.082   | -1.779  | -0.8294 | -1.709   |          |
| 0.3413 | 1.941      | 2.461  | -2.959    |         | 3.569    |         | -0.7387 | -1.549   |          |
| 0.94   | 1.07       | 0.63   | 0         | 1.329   | 0.6175   |         | -1.85   | -2.85    | -3.54    |
| 1.568  | 2.628      | 1.588  | -1.302    | 4.707   | 1.026    |         | -0.2919 | -1.232   |          |
| 0.015  | 0.055      |        | 0.305     | 0.05375 |          |         |         | -1.145   | -1.965   |
| -1.622 | 0.9181     | 2.458  | -1.162    | -1.963  |          | -2.432  | -0.9519 | -0.8319  | -1.982   |
| 5.655  | -0.035     | -0.105 | -0.785    |         | 6.583    | -1.645  | -0.955  | -0.835   | -0.865   |
| 1.04   | -0.64      | -0.09  | -0.7      |         | 4.928    | -0.46   | 0.26    | -0.01    |          |
| 2.89   | -0.83      | 0.16   | -0.16     | -0.7912 | 3.818    |         | 0.25    | 1        | 2        |
| 2.732  | -0.4475    | 2.112  | 0.2425    | 0.00125 | 2.58     | -0.8175 | -0.0575 | 1.393    | 1.962    |
| 0.7291 | -0.0009375 | 0.8591 | -0.01094  | -0.4722 | 3.567    | 1.309   | -0.3609 | 0.6491   | 1.089    |
| 1.226  |            | 1.226  | -1.084    | 0.295   |          | 0.5962  | -0.2937 | -0.4037  | -0.7538  |
| -0.37  | 1.04       | 1.21   | -1.77     | 1.389   | 3.018    | -1.65   | 1.21    | -1.32    | 0.48     |
| -1.116 | 0.8441     |        | -0.7659   |         |          |         | 0.8241  | 0.1841   | -0.6359  |
| -0.3   | 3.35       | 0.82   | -3.47     | 1.079   | -2.032   | -1.13   | 0       | 0.8      | 1.8      |
| 0.08   | -0.08      | 3.32   |           | -2.441  | -1.782   |         | 1.41    | -0.95    | 1.12     |
| 1.86   | 3.68       | 1.65   | -0.46     | -0.7512 | -1.272   |         | 1.1     | -0.38    | 5.37E-10 |
| 2.356  | 2.666      | 1.356  | 0.01625   | -0.015  | -2.296   | -1.054  | 0.1963  | -0.4337  |          |
| -2.57  | 2.29       | 2.49   | 0.32      |         |          |         | -0.84   | -2.5     |          |
| -0.94  | 0.27       | 1.79   | 0.45      | 1.109   | -2.692   | -0.23   | -0.32   | -0.22    | -0.01    |
| 3.61   | -0.25      | 0.8    | 0.12      |         | 0.0975   | -0.8    | 0       | 0.54     | 0.04     |
| 4.65   | 0.76       | 2.93   | -0.54     | 2.569   |          |         | 0.56    | 0        | -1.2     |
| 0.9    | 1.19       | 1.74   | 0         | 0.6688  | 0.6375   | -0.04   | -0.19   | -0.37    | 0.25     |
| 1.94   | 1.5        | -0.03  | -0.17     | 0.8988  | 1.948    | -1.44   | -0.65   | 0.03     | 0.4      |
| -0.42  | 0          | 1.74   | -1.1      | 1.269   | 0.5775   | -0.64   | 0.15    | -0.3     |          |
| -0.69  | 0          | 1.46   | 0.11      | 1.909   | -0.7325  |         | 0.05    | -0.32    | -1.17    |
| -0.145 | 0.305      | 0.775  | -0.355    | -0.2662 |          | -0.525  |         | 0.945    | -0.835   |
| -1.201 | 2.059      | 1.049  | -1.651    | -2.472  | -3.613   | 2.359   | 0.6091  | -2.571   | -1.621   |
| 0.35   | 0.1        | 0.73   | -0.1      | -2.181  | -5.332   | 1.04    | -2.24   | -2.92    | -2.21    |
| -0.61  | 0.18       | 0.61   | -0.59     | -1.711  | -1.772   | 0.73    |         | -0.18    |          |

Table 2

| SW872   | BT-549  | HS578T | RPMT-8226 | MOLT4   | NB4+ATRA | SK-BR-3  | BT-474   | MCF7-NCI | T47D     |
|---------|---------|--------|-----------|---------|----------|----------|----------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X  | ARRY13X  | ARRY15X  | ARRY14X  |
|         | 0.3112  | 1.521  | -0.00875  | -1.351  | -1.052   | -0.4088  | -0.7887  | -2.469   | -1.659   |
| 0.1206  | 2.621   |        | -0.2794   |         |          | -0.4794  | 1.001    | -2.919   | 1.701    |
| -0.85   | 0       | 1.34   | -2.18     |         |          |          | -0.88    | -2.5     |          |
| -1.1    | 0       | 3.48   |           |         |          |          | -0.86    | -3.74    |          |
| 0       | 1.18    | 4.41   | -3.24     | -2.461  |          |          | -0.02    | -2.29    | -1.32    |
| 0       | 1.2     |        | -1.3      | -1.581  |          |          |          | -1.35    | -0.72    |
| 0       | 0.3     | 2.33   | 1.07      | -2.421  | -2.322   |          | -1.35    | -2.81    | -4.16    |
| 0.36    | 0       | 2.36   | 1.39      | -4.191  | -5.532   | -2.77    | -0.75    | -3.44    | -3.73    |
| 0.46    | 0       | 2.26   | 1.34      | -3.441  | -5.522   | -2.76    | -0.89    | -3.69    | -3.72    |
| 0       | -0.42   | 2.4    | 0.41      | -2.581  | -2.762   |          | -1.1     | -2.83    | -2.16    |
| -1.229  | 1.211   | 5.191  | -1.669    | -3.271  |          | -0.5094  | 0.4406   | -2.199   | -1.969   |
| -0.09   | 0       |        | 1.54      | -1.041  | -1.462   |          | 0.28     | -1       | -0.43    |
| -0.55   | -0.78   | 2.83   | 1.97      | -3.081  | -3.262   | -1.23    | -0.13    | -1.25    |          |
| 0.1     | -0.1    | 2.51   | -0.85     | 1.149   | -1.512   | 0        |          | -0.55    | -0.47    |
| 0.2612  | 1.231   | 0.1412 | -0.1688   | -0.14   | -0.2912  | 0.3412   | 0.3813   | -0.4187  | -1.679   |
| 0.9     | 1.14    | 2.57   | -2.07     | -0.3512 | -1.462   | -0.44    | -0.49    | -1.54    | -0.02    |
| 0.5191  | 0.8591  | 2.559  | -2.041    | -0.9322 | -1.603   | -0.5809  | -0.5809  | -1.801   | -0.2909  |
| 0.52    | 0.31    | 1.68   | -0.64     | -0.1312 | -0.3825  | 0.31     | -0.01    | 0.06     | 5.37E-10 |
| 1.171   | 0.6706  |        | -0.07938  | -0.2606 | -0.8219  | -0.09938 | -0.5594  | -0.1594  | -0.1594  |
| 0.05    | 1.06    | 0.3    | -0.07     | 0.6387  | 0.1275   | -0.9     | -0.29    | 0        | -0.68    |
| -0.09   | 1.41    |        | -0.34     |         |          | 0.09     | 0.24     | 0.49     |          |
|         |         | 0.1747 |           | -1.017  |          |          | -0.1553  | 0.1147   |          |
| -1.154  | 0.2062  | 0.9462 | -0.4038   |         |          | -0.5938  |          | 0.2663   |          |
| -0.4059 | 1.054   | 0.2241 | -0.5259   |         | 0.3316   |          | -0.05594 | 1.134    |          |
| 0.04    | 0.46    | 0.03   | -0.52     | 0.7387  | -1.032   |          | 0        | 0.16     | -0.91    |
| -0.8688 | 0.08125 | 0.7612 |           | 0.12    | 0.3988   | -1.389   |          | -0.03875 | -1.179   |
| 0.805   | -2.255  | 1.255  | -1.205    |         |          |          | -0.015   | 0.415    | -2.985   |
| 0.38    | -0.99   | 0.92   | -0.94     | 0.2988  |          | -0.64    | 0.59     | 0.94     |          |
| 3.475   | 3.055   | 3.675  |           | 0.2437  |          |          | -0.125   | -0.185   | -0.675   |
| 1.56    | 2.13    | 1.9    | 0         | -0.8912 | 3.228    | -1.12    | 0.12     | 0.02     | -0.67    |
| 1.106   | 4.726   | 3.826  | -1.024    |         |          |          | 1.586    | 0.1456   | -0.6944  |
| 0.11    | 2.49    | 4.02   | 0         | -1.581  | 0.2375   | -0.32    | 0.76     | -0.2     | 0.69     |
| 0       | 5.52    | 5.64   | -0.56     | -0.3612 | -1.342   | -0.9     | 1.93     | -0.24    | 0.36     |
| -0.05   | 5.53    | 5.93   | -0.73     | -0.5313 | -0.7725  | -0.48    | 1.79     | 0        | -0.15    |
| 1.246   | -0.5438 | 6.926  | -0.6138   | -2.415  |          |          | 2.706    | 0.3363   | 0.3062   |
| 1.816   | -0.7144 | 7.436  | -0.04438  |         |          | -0.5844  | 2.916    | 0.4856   | 1.196    |
| 1.451   | 0.8412  | 6.231  | -0.3288   | 1.99    | -0.1512  | -1.029   | 2.311    | 0.3613   | -1.409   |

Table 2

| SW872   | BT-549  | HS578T | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474   | MCF7-NCI | T47D     |
|---------|---------|--------|-----------|---------|----------|---------|----------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X  | ARRY14X  |
| 0.2     | 2.75    | 7.92   | 0         | 1.419   | -1.142   | -0.7    | 3.6      | 0.37     | -0.66    |
| 0.36    | 3.39    | 5.76   | 0         | 2.869   | -0.2425  | 0.34    | 2.04     | 0.12     | 0.09     |
| 0.5012  | 3.051   | 5.271  | 0.04125   | 0.06781 | -0.04125 | -0.3988 | 2.251    | 0.9113   | 0.8812   |
| 0.7891  | 4.979   | 6.139  | 0.3491    | 0.06231 | -0.4334  | -1.571  | 2.659    | 0.8191   | 0.04906  |
| 0.8381  | 3.768   | 6.668  |           | -0.6231 | 0.03563  | -1.522  | 2.598    | 0.5481   |          |
| 0.66    | 4.18    | 7.14   | 0.4       | -0.1412 | 0.5175   | -1.04   | 3.19     | 1.03     | 5.37E-10 |
| 0.7156  | 2.676   | 4.226  | -0.5344   | -0.5756 | 1.243    |         | 1.636    | -0.8244  |          |
| 1.04    | 4.65    | 5.29   | -0.28     | -0.5412 | -0.3025  | -0.54   | 1.48     | -0.09    | -0.36    |
| 3.212   | 0.0225  | 4.542  | -0.5775   | -0.6988 | 0        | -0.8475 | 0.6825   | 0.5125   | -0.2775  |
| 3.121   | 0.5412  | 3.731  | -1.209    | -1.01   | -0.3912  | -1.329  | 0.8813   | 0.3713   | 0.4312   |
| 2.79    | -0.16   | 3.09   |           |         | 0.4275   | -2.35   | 1.08     | 0.14     |          |
| 4.05    | 0.14    | 3.78   | 0         | 0.3688  | -1.562   | 0.05    | 0.96     | 0.34     | -0.08    |
| 1.351   | 1.221   | 2.491  | 1.151     | 0.46    | 1.529    | -0.8787 | -0.04875 | -0.6587  | 0.5413   |
| 2.69    | 2.31    | 3.25   | 1.79      | -0.1913 |          |         | 0        | -0.44    |          |
| 3       | 3.24    |        | -0.97     | 0.8488  | -1.612   | -0.78   | 0.2      | -0.93    | 5.37E-10 |
| 1.161   | 1.981   | 1.311  | 0.1312    | -0.7    | -0.09125 | -0.1688 | -0.3287  | -0.09875 | -0.7988  |
| 1.428   |         | 1.738  |           |         |          |         | 0.06813  | -1.232   |          |
| 1.226   | 1.446   | 1.296  | -2.454    |         | 0.05375  | 2.226   | 0.6263   | -0.6937  | -0.2138  |
| 0.7312  | 1.281   | 1.011  | -2.549    | -0.57   | -2.111   | 0.2113  | 0.4013   | -0.7387  | 0.2112   |
| 1.879   | 1.879   | 1.919  | -0.6609   | -2.262  | -1.853   | 0.6091  | 0.8591   | 0.1591   | 0.3391   |
| 1.095   | 3.835   | 3.925  | -1.125    |         | -2.167   | -3.045  | 0.185    | -1.175   | -1.835   |
| 1.36    | 4.15    | 4.01   |           |         |          |         | 0        | -2.47    | -2.28    |
| -1.299  | 3.091   | 3.161  | -2.759    | -0.3306 |          |         | -0.4994  | -2.959   |          |
| 1.244   | 3.204   | 3.694  | -2.036    | -1.177  | -2.818   |         | 0.07406  | -1.886   | -1.916   |
| 2.28    | -0.91   | 2.23   | -0.28     | -2.401  | -0.5025  | -0.5    | -0.22    | 0.01     | -1.02    |
| 2.36    | -0.22   | 2.38   | -0.41     | -0.5912 | -1.262   | -2.41   | 8.05E-09 | -0.6     | -0.87    |
| 1       | 0       | 2.62   | -1.46     | -1.631  | -3.192   | 1.55    | -0.31    | -1.44    | -2.13    |
| 1.92    | 0.08    | 2.06   | -1.16     | 1.739   | 1.648    | 0.26    | -0.2     | -0.08    | -0.68    |
| 4.54    | 1.36    | 0.43   | 0.17      | -2.801  | -0.9825  |         | 4.71     | 1.75     |          |
| 4.781   | 1.351   | 1.701  | 0.7812    |         |          | -1.799  |          | -0.1487  |          |
| -0.1419 | -1.652  | 3.158  | -1.722    | 1.177   | -1.284   | -2.262  | 0.3481   | -1.602   | -1.802   |
| 0.2406  | 2.311   | 4.521  | 0.000625  | 1.499   | -1.342   |         | 0.6706   | -1.169   | -1.659   |
| -0.33   |         | 4.45   | 0.16      | -0.6412 |          | -1.13   | 1.57     | -0.16    | -1.09    |
| 2.051   | 3.791   | 5.151  | 2.321     | 2.84    | -1.561   | -0.3787 | 1.571    | -0.4587  | -2.079   |
| 1.84    | 1.68    | 1.5    | 0         | 2.739   | -1.562   |         | 0.22     | -0.25    | -2.5     |
| 0.2681  | 0.3381  |        | 0.06812   | -1.553  | -2.454   | -0.4819 | -0.06187 | -0.2219  | 1.148    |
| -0.275  | 1.095   | 0.955  | 1.135     | -1.036  | -0.4575  | -0.115  | 0.625    | -0.505   | -0.385   |

Table 2

| SW872    | BT-549  | HS578T    | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474   | MCF7-NCI | T47D     |
|----------|---------|-----------|-----------|----------|----------|---------|----------|----------|----------|
| ARRY8X   | ARRY10X | ARRY9X    | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X  | ARRY14X  |
| -1.03    | 1.25    | -2.91E-09 | 1.3       | -0.6812  | -1.832   | -0.34   | -0.2     | 0.36     | 0.04     |
| 0        | -0.45   | 0.33      | 2.53      | 0.6388   | -3.102   | 0.39    | -0.26    | -0.55    | -0.58    |
| -0.12    | 0       | 0.81      | 3.23      | -0.7912  | -0.2488  | 0.23    | -0.8     | -0.89    | -0.74    |
| 0.6312   | 0.3512  | -0.4488   | 0.6312    | -2.151   | -2.912   | 0.85    | -1.449   | -0.07875 |          |
| -0.77    | -0.8    | -0.21     | -0.55     | -3.686   |          | 0.54    | 0.06     | -0.4     | 0.03     |
| -0.075   | -1.715  | 1.345     | 2.905     | -2.901   | -2.112   | 0.42    | 0.865    | -1.125   |          |
| 2.089    | -0.3409 | 1.119     | 1.909     | -4.251   | -2.244   | -0.1809 | 0.6991   |          |          |
| 2.918    | -0.1819 | 1.218     | 1.018     | -3.381   | -2.712   | -1.102  | -0.3919  | -1.152   | 1.428    |
| 1.72     | 2.06    | 1.34      | -0.26     | -3.681   | -2.951   | 0.85    | 6.89E-09 | -0.44    |          |
| 1.2      | 2       | 1.98      | 0.3       | -1.951   | -2.112   | 0.54    | -0.14    | -0.11    | -0.39    |
| -0.35    | -1.17   | 0.25      |           | -2.901   | -4.432   | 0.42    | -2.12    | -2.49    | -0.55    |
| 0.63     | 0       | 0.26      | 0.47      | -3.381   | -2.662   | -0.78   | -1.38    | -1.08    | 0.47     |
| 0.49     | 1.26    | 2.09      | -1.32     | -3.681   | -4.182   | -1.19   | -0.61    | -1.63    | -0.81    |
| 0.21     | 1.38    | 1.02      | -1.12     | -0.39    | -6.171   |         | -0.52    | -1.67    | -1.76    |
| -0.04875 | 0.8712  |           | 0.2612    | -0.36    | -0.9212  |         | 0.4613   | -0.02875 | 0.3112   |
| 2.951    | 1.131   | 0.6612    | -0.1288   | -2.89    | -0.3312  | 0.4912  | -0.4287  | -0.6087  | -0.4388  |
| 0.01125  | 0.6612  | 0.9812    | 1.081     | -1.951   | -0.4425  | 1.31    | -1.09    | 0.3213   | -0.1688  |
| 2.04     | 0       |           | -0.73     | -1.591   | 0.1175   | 0.15    | -2.59    | -0.61    | 2        |
| 1.29     | -0.19   | -0.11     | -0.86     | -1.591   | 0.0675   | 0.23    | -1.54    | -1.54    | 0.26     |
| 1.6      | 0.12    | -0.06     | -0.87     | -2.723   | 2.806    | 0.2981  | -3.06    | -1.6     | 0.08     |
| -0.4419  | -0.2919 | -1.212    | -1.822    | -2.681   | 1.108    | 0.63    | -0.1919  | -0.3619  | 1.078    |
| 0.7      | -0.58   | -1.62     | -2.73     | -3.701   | 1.518    | 0       | -0.72    | -0.71    | 0.61     |
| -0.1     | -2.03   | -1.59     | -3.31     | -0.06875 | 3.463    | -0.7244 | 0.88     | -2.21    | 1.4      |
| 0.1456   | -2.494  | -0.2644   | -2.544    | 0.1387   | -0.4344  | 0.8881  | -2.954   | -1.904   | -2.154   |
| -0.1719  | -0.1819 | 0.1481    | -3.312    | 1.109    | -0.2125  | 0.63    | 0.2581   | -1.362   | 0.3281   |
| 0.1      | -0.18   | -0.95     | -1.01     | 0.00125  | -0.2725  | -1.49   | 0        | -0.11    | -0.2     |
| 0.38     | -0.01   | 1.1       | -0.26     | 0.00125  | -0.9     | -0.2875 | 0.12     | 0.01     | -0.99    |
| 0.3025   | 2.232   | 1.012     | -1.108    | -1.401   |          |         | -0.5375  | -1.127   | -0.2275  |
| -1.38    | 0.71    |           | 0.02      | -0.5112  |          |         | -0.59    | -0.53    |          |
| -0.22    | 0.38    | -0.09     | -3.61     | -0.9862  |          | 0.4     | 1.61     | -0.38    |          |
|          | 0.52    | 0.46      |           | -0.5112  | -0.8125  | -0.26   | 0.77     | -0.66    | 0.85     |
| 1.085    | 1.325   | -0.305    | -0.005    |          |          | 0.005   |          | -0.545   | 0.525    |
| 1.455    | 1.405   | 0.135     | -2.365    | -0.9862  |          | 1.905   | -1.975   | -0.485   | -0.105   |
| -1.019   | 0.02062 |           | 0.3906    | -0.9272  | -0.6319  | 0.2506  |          | 0.08063  | -0.06937 |
| -0.6959  | 0.5341  | 0.9641    | -1.026    | -0.9272  | 0.6216   |         |          | -0.2359  | -0.03594 |
| 0.7212   | -0.7188 | -1.589    | 0.1712    | -0.59    |          | 0.2212  |          | -1.289   |          |
| -0.6697  | 0.4003  | 0.7103    | -0.5197   | 0.1591   | -0.9722  |         |          | 0.6603   |          |

Table 2

| SW872   | BT-549  | HS578T  | RPMT-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474    | MCF7-NCI | T47D     |
|---------|---------|---------|-----------|----------|----------|---------|-----------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X   | ARRY15X  | ARRY14X  |
| 0.73    | 0.51    | -0.25   | 0.94      | 0.5888   | -1.432   | -0.93   | -0.64     | -0.36    | 0.21     |
| 0.57    | 0.38    | 0.99    | -0.38     | 0.5588   | 0.8275   |         |           | -0.62    | -0.38    |
| 0.3613  | 0.03125 | 1.181   | -1.549    |          | -0.2612  | -0.5887 | -1.639    | -0.6487  | -0.3887  |
| -4.049  |         | -3.149  | 1.061     | -1.65    | -5.891   | -2.569  | 1.621     | -1.769   |          |
| -1.052  | 1.188   | -1.572  | -1.312    | -2.333   | -3.434   | -2.942  | -1.992    | -0.7719  | 1.628    |
| -0.63   | 1.08    | -1.15   | -1.83     | 0.9188   | -3.352   | -0.54   | -0.55     | 0.35     | -0.2     |
| 0.2606  | 0.5506  | -0.3594 | -1.539    | 2.929    |          | -2.069  | -1.489    | 0.05063  | -0.5594  |
| 0.2112  | 0.7512  | -0.3288 | -2.389    | 0.94     | -3.471   | -2.329  | -0.2587   | -0.1087  | 0.1012   |
| -0.2119 | 0.07812 | 0.6581  | 1.788     | 2.367    | -5.134   |         |           | 0.5081   |          |
| -0.18   | 0.11    | 0.06    | 0.58      | 1.539    | -2.302   |         | -0.47     | 0.73     |          |
| 3.18    | 0.07    | 1.79    | -1.8      | -0.1812  | -1.942   | -2.5    | 0.45      | -1.43    | 5.37E-10 |
| 0.1281  | -1.082  | -0.5319 | -0.6719   | -0.9631  | -1.574   | -2.232  | 3.638     | -1.722   | 0.5581   |
| 1.89    | 1.69    | 1.31    | -0.09     | -0.4113  | -1.392   | -2.53   | -1.30E-09 | 1.30E-09 | -1.17    |
| 0.7513  | 1.111   | 0.9312  | -0.2988   | -0.51    | 0.01875  | -1.419  | -0.8787   | -0.4687  | -0.9587  |
| -0.65   | -0.05   | 1.58    | -0.52     | 0.8387   |          | -1.41   | 0         | -0.81    | -2.54    |
| -0.5038 | -1.474  | 0.1562  | 0.6862    | -0.155   | -1.606   | -1.344  | -1.394    | -1.234   | -1.944   |
| -1.399  | -0.3888 | 0.03125 | 0.4512    | 0.86     | -2.031   | -0.2387 | -0.2687   | -0.5187  | -0.4988  |
| -0.55   | -1.12   | 0.07    | -0.31     | -0.1312  | -0.1525  | -0.17   | -0.29     | 0.66     | 0.2      |
| -1.368  | 1.072   | -1.468  | -0.5275   | -0.9488  | 0        | -1.028  | -0.1975   | -0.1375  | -1.368   |
| -2.22   | -2.34   | -0.71   | -2.04     |          | -4.282   | -2.12   | -2.89     | -0.01    | 5.37E-10 |
| -0.545  | -1.915  |         | -1.815    | -0.4662  | 0.2125   | 0.255   | 0.065     | -0.715   | -1.235   |
| -2.848  | -1.318  | -0.3275 | -2.248    | 0.00125  | -3.19    | -1.348  | -0.7975   | -0.6075  | 4.822    |
| -1.862  | -0.9319 | -1.832  | -1.812    |          |          | -0.4419 | 1.008     | -0.3119  | 0.9381   |
| -0.655  | 0.115   |         | -0.115    |          | -0.9875  | -1.605  | -1.195    | -0.645   | -0.305   |
| 0.4781  | -1.102  | -0.6119 | 0.8381    | -0.4431  | -0.2444  | -0.9719 | -0.4619   | 0.4281   | -0.3519  |
|         |         | -1.439  | -1.629    |          |          | -0.9887 | -1.999    | -0.4987  | -2.049   |
| -0.05   | 0.42    | 0.6     | -0.98     | 0.3088   | -0.8225  | -0.54   | -1.03     | -1.47    | 5.37E-10 |
| 0.945   |         | -1.625  |           | -3.566   | -5.328   |         | -1.855    | 0.585    | -1.355   |
| 2.229   | -2.601  | -1.231  | -3.261    | -1.062   |          | -0.7709 | -1.431    | 0.7891   | -0.2509  |
| -0.1381 | 0.5519  | -0.2981 | -1.898    | -2.839   | 0.01938  | -0.1881 | -0.06812  | -1.608   | -2.228   |
| 0       | 0.08    |         | -0.6      |          |          |         | -1.36     | -2.46    |          |
| 1.978   | -1.172  | -4.292  |           |          |          |         | -5.312    | -5.192   |          |
| -0.3759 | -0.2959 | 1.664   | -1.426    | -0.6672  | -3.308   | 0.5741  |           | -1.676   | -0.2759  |
| 0.8956  | -0.1044 |         | -0.4244   |          | -0.8369  |         | -1.644    | -2.004   |          |
| -0.285  | 0.085   | -1.225  | 0.175     | -0.09625 | -2.407   | 0.245   | -0.455    | -1.625   | -0.795   |
| 0.43    | 0.73    | -0.37   | -0.38     | -0.01125 | -1.942   | -0.22   | -0.22     | -1.72    | -3.53    |
| -0.58   | 1.82    | 0.11    | -1.65     |          | -3.072   | 1.34    | -0.75     | -0.85    | -1.84    |



Table 2

| SW872   | BT-549  | HS578T   | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D    |
|---------|---------|----------|-----------|---------|----------|---------|---------|----------|---------|
| ARRY8X  | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X |
| -0.5319 | 2.068   | -0.01188 | -1.502    | 0.05687 | -3.244   | 0.9881  | -0.3719 | -0.8019  | -1.442  |
| 0.15    | 1.67    | 0        | -1.01     | -1.361  | -3.072   | -0.06   | -0.77   | -1.01    | -1.33   |
| -0.6044 | 2.256   | -0.2744  | -0.5644   | -1.276  | -3.267   |         | -0.7444 | -2.244   | -1.934  |
| -0.215  | 3.695   | -0.225   | -2.435    | -1.016  | -2.307   |         | -1.575  | -2.075   | -2.515  |
| 1.3     | 0       | 0.28     | -2.11     | -2.691  |          |         | -1.1    | 0.1      |         |
| -0.775  | -0.885  | 1.175    | -4.265    |         |          | -6.085  | -2.715  |          |         |
| -0.4288 | -0.9288 |          |           |         | -2.411   |         |         | -1.319   | -2.929  |
| -0.465  | 0.465   | -1.225   | -3.315    | -3.016  | -4.507   | -1.885  | -1.795  | -2.815   |         |
| 1.79    | 0.68    | -0.11    | -2.1      | -4.331  | 0.1875   | -4.65   | -3.32   | -2.1     | -2.23   |
| 1.894   | 0.4841  |          | -1.966    | -4.347  | 0.1216   | -4.406  | -3.136  | -2.016   | -0.7359 |
| -0.03   | -1.35   | 0.03     | -0.61     | -1.411  | 0.1375   | -2.38   | -2.36   | -1.09    | -1.18   |
| 1.58    | 0.18    | 0        | -3.29     | -2.351  | -0.0825  | -4.19   | -2.96   | -3.12    | -2.49   |
| 0.61    | -1.22   | 0.01     | -3.38     | -3.601  | 0.4975   | -2.22   | -1.94   | -2.53    | -2.14   |
| -0.8288 | 0.8012  | -0.2788  | -1.089    | -1.72   | -1.731   | -1.139  | -0.7987 | -3.069   | -1.909  |
| -0.7809 | 0.4391  | -1.571   | -1.681    | -2.442  | -1.223   | -0.7309 | -2.121  | -1.731   |         |
| -1.27   | 0       | -1.89    | -2.12     | -3.221  | -1.582   | -1.83   | -2.44   | -2.71    | -3.15   |
| -1.29   | 0       | -2.2     | -1.74     | -2.961  | -1.202   | -0.39   | -2.68   | -2.37    | -2.88   |
| -1.62   | 0       | -2.12    | -2.85     | -3.991  | -2.112   | -1.88   | -2.78   | -2.75    | -3.21   |
| -0.9788 | 0.2112  | -1.279   | -2.349    | -2.81   | -1.011   | -1.979  | -2.339  | -1.669   | -3.199  |
| -0.5688 | 0.2112  | -1.049   | -1.949    | -3.11   | -0.7612  | -1.489  | -2.449  | -1.259   | -2.679  |
| -2.355  | -0.9147 |          | -3.995    | -5.256  | 0.3928   |         | -2.545  | -4.505   |         |
| 1.19    | 0.38    | 1.29     | -2.25     | -4.191  | -1.372   |         |         | -2.96    | -3.62   |
| 1.33    | 0.5     |          | -0.64     | -1.701  | -0.2325  | -2.74   | -1.35   | -2.08    |         |
| -0.3087 | 0.7512  | 0.3312   | -2.339    | -0.79   | -0.9612  | -2.089  | -1.369  | -1.889   | -2.679  |
| 0.3891  | 0.4091  | -0.09094 | -4.381    | -4.772  | -0.1734  | -3.591  | -3.261  | -3.901   | -4.311  |
| 0.7     | 0.26    | -0.45    | -0.59     | -4.111  | -3.412   | -3.53   | -2.96   | -1.23    | -0.87   |
| 0.48    | 0       | -0.79    | -1.03     | -2.661  | -1.512   | -0.71   | -2.97   | -1.64    | -0.51   |
| 0       | 0.29    | -1.06    | -1.07     | -1.971  | -1.792   | -1.32   | -2.28   | -1.71    | -0.73   |
| -0.1319 | -1.472  | -0.7319  | -5.482    | 0.5169  | 0.8256   | -4.602  | -4.652  | -4.952   | -5.562  |
| -0.1619 | -1.352  | -0.9219  | -5.132    | 0.6169  | 0.8856   | -4.112  | -4.622  | -5.182   | -5.952  |
| 0.715   | -0.235  | -0.025   | -0.935    | -1.616  | -1.117   | -3.425  | -1.695  | -2.115   | -2.525  |
| 0       | -1.36   |          | -3.6      | -1.601  | -0.8425  | -2.64   | -2.19   | -3.33    |         |
| -0.3194 | -1.869  |          |           | -2.171  | -1.412   |         | -2.589  | -4.639   | -3.169  |
| 0.08    | -1.49   | -3.74    | -4.27     | -1.541  | -0.6625  | -6.71   | -2.52   | -4.06    | -3.09   |
| -0.1    | -1.51   | -3.34    |           | -1.441  | -1.002   |         | -2.43   | -4.19    | -3.8    |
| -1.446  | 0.5941  | 0.6341   | -2.226    |         | -4.108   | -2.276  | -0.9159 | -0.2259  | -2.826  |
| 0.725   | 1.105   | 0.355    | -2.665    | -4.126  | -4.147   | -0.355  | -1.375  | -1.785   |         |

Table 2

| SW872    | BT-549  | HS578T  | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474   | MCF7-NCI | T47D    |
|----------|---------|---------|-----------|---------|----------|---------|----------|----------|---------|
| ARRY8X   | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X  | ARRY14X |
| 0        | 0.29    | -0.36   | -5.23     | -5.831  | -4.592   | 1.76    | -1.88    | -5.5     | -1.08   |
| 0.09     | -1.55   | 0       | -1.12     | -4.561  | -4.322   | 0.04    | -1.58    | -3.22    | -2.57   |
| 0.3741   | -0.9659 | -0.3359 | -0.2559   | -3.357  |          | -3.676  | -1.676   | -2.086   | -2.736  |
| -3.032   | 0.3481  | 0.1981  | -4.182    | -3.563  | -1.084   | -4.422  | -3.182   | -3.912   | -2.842  |
| 0.56     | 0       | 1.77    | -0.88     | -2.191  | -5.652   | -1.82   | -1.51    | -1.5     | -1.42   |
| 1.274    | 1.124   | -1.276  | -3.106    | -1.527  | -3.198   |         | -2.336   | -3.056   | -3.716  |
| 2.381    | 2.281   | 0.5306  | -4.109    | -1.361  | -6.252   | -4.809  | -3.059   | -4.159   |         |
| 0.1841   | 0.5941  | 0.6141  | -4.536    | -4.757  | -5.518   |         | -3.006   | -3.126   | -3.446  |
| -0.7088  | -0.4088 | 0.06125 | -3.859    | -4.4    | -6.061   | -5.449  | -3.539   | -3.909   | -4.999  |
| -0.26    | 0.49    | 0.61    | -1.4      | -7.091  | -6.272   | -5.61   | -3.66    | -4.64    | -6.79   |
| -0.1675  | 0.5425  | -0.1675 | -3.638    | 0.00125 | -1.2     | -4.048  | -3.367   | -3.347   | -4.008  |
| -0.9175  | 0.4625  | -0.8075 | -5.918    | 0.00125 | -1.64    | -6.038  | -4.347   | -5.967   | -5.578  |
| 0.3081   | -3.302  |         |           |         | -6.114   | -5.672  | -3.452   | -4.182   |         |
| 0.1181   | -2.462  | -0.3019 | -4.862    |         |          |         | -3.032   | -4.772   | -5.092  |
| 0.8412   | -3.129  | -1.889  | -4.599    |         | -6.961   | -7.519  | -5.399   | -4.869   |         |
| 0.2297   | -0.6103 | 0.5997  | -3.1      |         | -3.323   | -3      | -2.51    | -2.44    | -2.96   |
| 0.07062  | -0.6494 | 0.1806  | -2.309    |         | -2.832   | -2.859  | -3.119   | -2.839   | -3.499  |
| 0.000625 | -0.3194 | 0.6806  | -2.679    | -3.771  | -3.532   | -1.399  |          | -2.239   | -2.379  |
| -3.352   | -0.6619 | 0.5181  | -2.952    | -3.493  | -2.944   | -3.352  | -2.792   | -4.332   | -4.162  |
| 0.4997   | -0.8103 | 2.44    |           |         |          | -2.73   |          | -5.36    |         |
| 1.101    | 0.4712  | 1.241   | -3.029    | -3.05   | -4.071   | -1.529  | -2.419   | -2.799   | -4.109  |
| 1.26     | 1.22    | 2.45    | -3.59     | -3.651  | -4.732   | -3.71   | -1.76    | -3.9     | -4.25   |
| 1.08     | 0.13    | 0.61    | -0.78     | -0.8712 | -1.162   | -2.9    | -2.27    | -1.58    | -2.13   |
| -1.221   | 0.2491  | 0.3491  | -2.461    |         | -4.603   | -0.8109 | -0.02094 | -1.191   | -3.121  |
|          | 0.3741  |         | -1.706    | -1.997  |          | -1.636  | -0.04594 | -1.066   |         |
| -5.294   | 1.026   | 0.3356  |           |         | -6.217   |         | -1.654   | -1.624   | -5.154  |
| -2.099   | 0.9312  | 0.4812  | -3.059    | -3.74   |          |         | -1.989   | -1.359   |         |
| 0.7606   | -0.3094 | 2.531   |           |         |          | -1.799  | -1.689   | -2.639   | -3.259  |
| 1.728    | 0.4581  | 1.148   | -2.652    | -1.763  | -2.454   | -2.672  | -1.482   | -1.942   | -1.152  |
| 0.2781   | 0.9381  | 0.8781  | -3.262    | -2.063  | -1.824   | -1.762  | -0.5219  | -1.532   | -1.122  |
| -0.29    | -0.85   | -0.19   | 0         | -1.581  | -1.432   | 0.49    | -1.38    | -0.57    | -1      |
| -0.65    | -1.19   | -0.79   | 0         |         | -3.132   | 0.49    | -2.89    | -1.19    | -1.93   |
| -1.3     | -2.84   | 0       | -2.77     | -4.031  | -2.212   | 0.23    | -1.43    | -1.22    | -1.79   |
| 0.4      | -2.08   | -1.66   | -2.44     | -2.021  | -2.692   | -1.2    | -2.33    | -2.49    | -0.79   |
| 0.2781   | -2.482  | 0.1581  | -1.052    | 0.1169  | -2.994   | -3.872  | -2.462   | -1.762   | -2.662  |
| 0.39     | 1.05    | 1.63    | -2.99     | -2.791  | -4.872   | -1.66   | -1.42    | -3.04    | -1.51   |
| 0        | 0.24    | -1.28   | -2.06     | -4.081  | -3.102   |         | -6.03    | -1.91    | -2.14   |

Table 2

| SW872   | BT-549  | HS578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D    |
|---------|---------|----------|-----------|----------|----------|---------|---------|----------|---------|
| ARRY8X  | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X |
| -0.75   | 0       | -0.88    | -3        | -1.581   | -1.932   | -1.562  | -2.17   | -1.98    |         |
| 1.818   | -0.3419 | 0.3981   | -1.492    | -2.463   | 0.5356   | -1.562  | -1.202  | -0.01187 | -1.802  |
| 0.625   | -1.055  | -0.075   | -3.355    | -2.256   | 2.473    | -3.155  |         | -2.015   | -2.435  |
| 1.164   | -3.216  | -0.04594 |           | -4.647   | 2.382    |         | -1.846  | -2.236   |         |
| 0.035   | -1.495  | -0.055   | -2.165    | -0.3662  | -1.017   | -2.395  | -1.805  | -4.385   |         |
| 0.91    | -1.56   | 0.31     | 0         | -0.2412  | -1.932   | -2.25   | -2.2    | -1.64    | -0.7    |
| 2.511   | -0.9888 | 0.09125  | -0.5088   | -1.39    | -0.1212  | -1.399  | -2.079  | -0.6087  | -0.2088 |
| -0.29   | 1.97    | -0.21    | -2.91     | -2.091   | 2.698    |         | -2.7    | -2.02    | -2.37   |
| 1.18    | -0.69   | -1.13    | -1.81     | -2.681   | 4.048    | -5.17   | 0       | -4.1     | -2.13   |
| 0       | -0.29   | 1.44     | -0.75     | -1.781   | 1.698    |         | -1.5    | -3.55    | -2.88   |
| -0.12   | 0       | -0.49    | -2.27     | 0.3088   | 1.828    | -1.39   | -1.7    | -1.46    | -1.93   |
| 0.1741  | -1.616  | -0.8959  | -1.666    | -2.707   | 0.9416   | -2.686  | -1.816  | -3.096   |         |
| -0.1    | -0.84   | 0        | -3.63     | -2.191   | -2.872   | -3.95   | -0.65   | -1.88    | 0.84    |
| 0       | 0.73    | 0.34     | -2.14     | -1.541   | -0.7425  | -1.89   | -2.52   | -1.73    | -3.19   |
| 0.5413  | -0.3488 | -0.5088  | 0.06125   | -1.15    | -0.8712  | -0.2387 | -1.699  | -1.399   | -0.6187 |
| 0.6813  | -0.2788 | 0.08125  | -0.2688   | -1.64    | -1.401   | -0.5587 | -2.119  | -2.429   | -0.6787 |
| -0.9775 | -0.5475 | 0.6025   | -1.238    | -1.479   | 0        | -0.6675 |         | -1.458   | -3.518  |
| -1.188  | -1.978  | -2.738   | -2.898    | 0.00125  | 0.13     | -2.428  | -2.637  | -2.837   | -2.978  |
| 0       | -2.4    | -1.96    | 0.05      | -0.8712  | 0.4075   |         | -2.45   | -2.75    | -2.51   |
| -2.375  | -1.375  | 0.275    | -0.275    | 0.8038   | -1.667   |         | -2.325  | -2.405   | -2.285  |
| -1.562  | -0.9119 |          | -1.102    | 0.1369   | 1.016    | -1.352  | -2.632  | -1.702   | -2.112  |
| -0.06   | -4.26   | 0        |           | -0.01125 |          | -5.55   | -3.72   | -4.06    | -1.21   |
| -0.6353 | -0.7953 | 0.3347   | 0.5347    | 0.7634   | 0.5722   | -2.695  | -2.535  | -2.945   |         |
| 0.5381  | -3.422  | -2.272   | 1.138     | 1.487    | 2.826    | -3.292  | -3.752  | -3.482   | -2.512  |
| 0.06    | 0.71    | 0.08     | 0         | 0.3788   | 1.078    | -5.7    | -3.43   | -4.63    | -4.92   |
| -0.44   | 0.86    | -0.41    | 0.25      | 1.079    | 1.318    | -4      | -3.17   | -1.23    | -4.22   |
| -0.2019 | -0.5519 | 0.02812  | -0.7619   |          | 3.336    |         | -3.852  | -1.882   | -1.622  |
| 0.08125 | -0.8988 | -0.4288  | 0.1712    | -1.91    | 0.04875  | -4.519  | -0.2487 | -3.299   | -4.189  |
| -1.69   | 0.85    | 0        | -2.58     |          | -2.462   | -0.6    | -3.15   | -1.27    | -0.08   |
| 0.12    | 0.68    | -1.18    | -3.12     | -3.261   | -3.162   | -5.46   | 0.56    | -2.22    | 0.7     |
| -0.85   | -1.17   | 0        |           |          |          |         |         | 0.29     | -0.43   |
| -0.1209 | -2.571  | 0.8991   | -2.381    | -4.702   | -0.2734  |         |         | -2.561   | -2.901  |
| 1.142   | -1.258  | 1.622    | -1.758    |          | 0        | -0.8775 | -0.3175 | -1.288   | -1.448  |
| 0.55    | -1.14   | -0.2     | -1.21     | -0.9312  | 1.008    | -0.81   | -0.76   | -1.13    | -0.88   |
| -0.3075 | -2.528  | -1.628   | -0.7275   | 0.00125  |          | -0.2075 | -1.627  | 0.4025   | 0.0625  |
| 0       | -1.92   | -1.46    | -2.29     | 1.869    | -2.032   | -0.18   | 1.29    | -1.87    | -1.86   |
| -0.33   | -0.44   | 1.54     | -2.99     | 1.369    | -4.552   | 0.28    | -0.23   | -0.34    | -5.07   |

Table 2

| SW872   | BT-549  | HS578T   | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|---------|---------|----------|-----------|---------|----------|---------|---------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| -0.08   |         | 1.34     | 0.03      | 2.979   | -2.882   | -0.86   | -0.03   | -1.37    | -0.32    |
| -1.31   | -1.47   | -0.84    | -1.09     | 0.01875 | -1.412   | 2.54    | -0.47   | 0.34     | 5.37E-10 |
| -1.095  | -0.955  | -1.385   | 0.125     |         | 2.443    | -0.125  | -0.425  | -0.285   | -1.405   |
| -1.3    | -0.31   | -0.84    | -4.56E-09 | -0.7512 | -0.1925  | -0.33   |         | 0.12     | 5.37E-10 |
| -1.749  | -0.6088 | 2.101    | 2.551     | -1.01   | -0.7712  | -1.329  | -0.6987 | -0.7787  | -1.609   |
| -0.83   | 0.17    | 0        | -0.76     | 0.4988  | -0.0225  | -3.77   | -2.33   | -0.84    | 1.32     |
| -3.234  | -2.744  | -1.024   | -2.494    | -0.915  | 1.744    | -3.414  | -2.154  | 0.9163   |          |
| 0.01062 | -0.1894 | -0.05938 | 0.4606    | -0.6006 | -0.01187 | -0.4594 | 0.8406  | 0.2906   | -0.6594  |
| -0.225  | -3.575  |          |           |         |          | 0.225   | -1.595  | -3.205   | -2.945   |
| -0.25   | -1.17   | 2.62     | 0         | -3.041  | 1.048    | -1.78   | -0.77   | -1.29    | -1.15    |
| 1.32    | 0       | 0.05     | -2.51     | -0.4012 | -1.942   | -0.7    | -2.43   | -2.63    | -2.52    |
| -0.62   | -1.27   | 0        | -0.19     | 0.3488  |          | -0.38   | -2.57   | -2.57    | -2.37    |
|         | -0.315  | -1.155   | 1.725     | -0.9262 | 0.5025   | -1.275  | -1.795  | -0.675   | -0.095   |
| 0.66    | -0.46   | -0.78    | 0         | -3.411  | -2.902   | 1.47    | -1.26   | -2.28    | -1.07    |
| -0.8288 | 0.7812  | -1.689   | -1.609    | -2.77   | -3.651   | -3.989  | -0.8987 | 0.3313   | -2.169   |
| -0.29   | 0       |          | 0.26      | -0.6912 |          | -0.52   | -0.62   | -0.87    |          |
| -1.28   | -0.82   | 0        | -0.14     | -1.861  | 1.868    | -0.18   | 0.59    | -1.59    | 2.96     |
| -0.36   | -1.27   | -0.87    | -2.72     | -3.721  | 0.8075   | -4.26   | -1.25   | -3.19    | -2.22    |
| -1.255  | -0.605  | 1.165    | -0.635    |         | -5.237   | -2.795  | -1.145  | -1.925   | -0.805   |
| -1.928  | -1.238  | -0.4775  |           | 0.00125 | -2.05    | -1.208  | -0.6075 | -1.707   |          |
| -0.83   | -0.93   | -0.03    | -0.97     | -0.4813 |          | 1.78    | -0.14   | 0        | 1.42     |
| -0.835  | -0.245  | 4.325    | -0.895    | -0.4963 | -1.937   | 0.225   | 0.745   | -0.225   | 0.395    |
| -1.75   | -0.73   | 3.3      |           | -0.5713 | -1.622   | -0.71   | 0.15    | 0        | -0.14    |
| -0.8088 | -0.2288 | 0.08125  | -0.06875  | -1.42   | 0.06875  | 0.1412  | -0.6687 | -0.4487  | -0.1988  |
| -1.119  | -1.409  |          | -0.2788   | 0.2     | -1.351   | -0.9988 | -0.1987 | 0.3013   |          |
| -0.4875 | -0.8975 | -0.9175  | 0.2925    | 0.00125 | -0.44    | -0.2075 | 0.3425  | 0.6225   | -0.1075  |
| -0.855  | 0.015   | 0.255    | -0.015    |         |          | -1.375  | -1.025  | -0.615   |          |
| -0.58   | 1.49    | 0        | -1        | 0.1988  | -0.9825  | -1.5    | -0.35   | -0.92    | -0.57    |
| -0.79   | -1.19   | -0.37    | -0.87     | -0.1412 | -1.152   | 0       | -0.46   | 0.29     | 1.01     |
| -1.595  | -3.475  | -2.305   |           | -2.226  | -2.207   | -0.215  | -0.645  | 0.215    | 1.245    |
| -1.635  | -2.615  | -0.915   |           | -3.486  |          | 0.135   | -1.195  | 0.405    |          |
| 0.14    | 0       | -0.6     | -1.66     | -0.7812 | -1.592   | -1.1    | -1.76   | -1.24    | 0.17     |
| -0.4075 | -0.0175 | -0.2675  | -0.1975   | 0.00125 | 0.5      | 0.0125  | -0.5375 | -0.6575  | -0.1175  |
|         | -1.098  | -0.5375  | -1.688    | 0.00125 |          | -1.938  | -0.8475 | -1.297   |          |
| -0.26   | 0.95    | 0        | -0.06     | -2.621  |          | -0.13   | -0.61   | -0.06    | 0.38     |
| -0.5375 | -1.278  | 0.9125   |           | 0.00125 | -1.54    | -2.318  | -0.3375 | -0.9275  |          |
| 0.365   | -0.885  | 1.385    | -1.145    |         |          | -0.545  | -0.835  | -0.365   | -2.375   |

Table 2

| SW872   | BT-549  | HS578T   | RPM1-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|---------|---------|----------|-----------|----------|----------|---------|---------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| -0.39   | 0       | 0.54     | -0.67     | -0.1612  | -1.622   | -0.74   | -0.77   | -1.27    | -1.3     |
| 2.32    | 0       | -0.03    | -0.93     | -0.9712  | -3.232   | -2.67   | -1.29   | -1.6     | -1.87    |
| -0.75   | 0.7     | 0.6      | -1.58     | -0.6913  | -1.142   | -1.6    | 0       | -0.43    |          |
| -0.7075 | 0.2025  | 0.2625   | -0.2475   | -0.08875 | 0        | -1.658  | -0.1775 | -0.1275  |          |
| 2.07    | -0.46   | -0.07    | -2.43     | -3.011   | -2.912   | -1.58   | 0       | -1.14    | -1.75    |
| 1.5     | -0.1    | -0.94    | -1.96     | -2.601   | -2.522   | -2.03   | 0       | -1.42    | -1.7     |
| -0.09   | -0.26   | 0.09     | -0.91     | -0.5112  | -2.192   | 1.11    | 0.66    | -0.22    | -1.15    |
| -0.5975 | -1.498  | -1.028   | 0.3525    | 0.00125  | -0.52    | 1.402   | -0.3075 | 0.0025   | -0.0075  |
| -0.7988 | -0.1688 | 0.7012   | -0.6588   | -1.1     | 0.1688   | 1.631   | -0.5787 | -0.4687  | -0.5888  |
| -0.45   | -0.8    |          | -0.55     | -0.3512  | 1.058    | -1.09   | 0.74    | -0.28    | -0.31    |
| 0.145   | 1.585   |          | -1.485    | -1.386   | -3.367   | -1.855  |         | -0.145   | -1.415   |
| -0.21   | -0.02   | 1.5      | -0.1      | -0.2112  | 0.0075   | 0       | 0.35    | -0.3     | -0.4     |
| -0.9744 | -0.2244 | 0.4156   | 0.1756    | -1.756   | -0.5169  | -0.5944 | 0.3756  | 0.4056   |          |
| 0.8     | 0.86    | -0.05    | -0.22     | -0.3812  | 0.8775   | -0.21   | -0.83   | -0.86    | 5.37E-10 |
| -0.6338 | 0.6462  |          |           | -0.165   | -0.6762  | -1.624  |         | -1.114   | -1.314   |
| -0.7488 | 0.5112  | -0.08875 | -0.4788   | -1.29    | 2.989    | -1.039  | -0.9887 | -0.3987  | 0.02125  |
| 1.51    | -2.71   | 0.81     | -0.05     | -0.3612  | -0.7425  | 3.12    | -1.11   | -1.76    | -1.59    |
| 0.38    | 0       | -0.35    | -2.67     | -2.301   | -3.232   | 1.82    | -1.59   | -2.91    | -1.2     |
| 2.66    | 0.07    | 0        | -2.42     | -1.531   | -3.682   | -0.07   | -2.05   | -2.27    |          |
| 0.45    | -1.42   | -0.12    | -2.95     | -1.421   | -0.4325  | 0       | -1.79   | -1.49    | -0.39    |
| -1.21   | -1.56   | -0.88    | -1.1      | 1.069    | 0.6575   | -2.18   | -2.03   | -1.95    | -0.29    |
| -1.15   | 0       | 0.8      | -0.82     | 2.559    | 1.128    | -0.87   | -1.99   | -2.18    | -1.9     |
| -2.63   | -0.36   |          | 0.36      | -1.911   | -1.712   |         |         | -4.04    |          |
| -0.3    | -0.48   | -0.73    | -0.19     | -0.1313  | -1.402   | -0.37   | 0       | -0.94    | -0.74    |
| 1.088   | -0.9519 | 0.5281   | -1.082    |          | 0.5756   | -1.292  | -2.052  | -1.932   | -1.162   |
| 1.066   | -0.7444 | 2.716    |           |          |          | -0.7644 | -1.354  | -2.474   |          |
| 1.156   | 0.3656  | 2.416    | -1.474    |          | -1.657   | -0.4544 | -0.4144 | -1.384   | -1.484   |
| 2.545   | 1.715   |          | -0.8347   | -0.1359  | -0.02719 | -2.075  | -0.8847 | -1.665   | -1.915   |
| 1.87    | 0.62    | 0.25     | -1.19     | -1.271   | -0.5725  | -1.59   | -1.3    | -0.59    | 0.25     |
| 2.352   | 1.572   | 1.832    | -1.968    | -2.619   | 0        |         | -0.1775 | -0.1875  | -1.138   |
| 0.595   | 2.665   | 1.205    | -0.445    | -2.506   |          | -2.065  |         | 0.795    | -0.555   |
| -0.35   | -2.24   | -2.08    | 0.36      | -1.041   | 0.6875   | -1.041  | -2.04   | -1.74    | 5.37E-10 |
| -0.64   | -5.12   | -4.73    | 0.26      | -0.8012  | 0.0275   | -2.57   | -5.04   | -1.38    | 0.31     |
| -2.822  | -2.412  | -3.062   | 3.118     | -3.283   | 2.456    | -3.012  |         | -2.792   | -2.562   |
| -0.8775 | 0.7525  |          | 0.8425    | -0.08875 | 0        | 0.3925  | -0.3175 | -3.488   | -2.038   |
| -2.65   | 0.06    | -0.06    | -2.01     | -1.201   | -2.742   | -1.63   | -0.23   | 0.25     | -1.77    |
| -0.27   | 0       | -1.69    | -1.59     | -2.571   | -1.082   | -1.82   | -1.37   | 1.16     | -1.53    |

Table 2

| SW872   | BT-549   | HS578T   | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3  | BT-474     | MCF7-NCI | T47D     |
|---------|----------|----------|-----------|---------|----------|----------|------------|----------|----------|
| ARRY8X  | ARRY10X  | ARRY9X   | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X  | ARRY13X    | ARRY15X  | ARRY14X  |
| -1.118  | 0.4325   | 0.2025   | -4.878    | 0.00125 | -1.96    | -1.018   | -1.907     | 0.8725   | -2.428   |
| 0.2512  | 0.8812   | 0.1412   | -0.3188   | -1.71   | -0.8112  | -1.529   | 0.1713     | -2.019   | -1.439   |
| 0       | 1.98     | 0.98     | -1.58     | -2.621  | -2.762   | -0.55    | 0.75       | -3.49    | -3.28    |
| 1.24    | 0.83     | 0.69     | 0.34      | -0.5512 | -2.722   | -1.1     | -0.4       | -1.48    | -1.41    |
| 0.5512  | 1.641    | 0.5712   | -2.429    | 0.55    | -1.231   | -2.069   | -1.679     | -3.799   | -2.249   |
| 1.721   | 2.111    | 1.871    | 0.4712    | -0.79   | -0.6112  | -1.789   | -0.1287    | -1.299   | -0.7488  |
| -0.3387 | 0.8812   | -0.06875 | -0.8388   | -1.03   |          | -0.6287  | -1.529     | -2.459   | 0.7413   |
| 0.9541  | 0.9141   | 1.384    | -3.376    | -2.977  | -4.158   | -0.07594 | -0.7359    | -0.3259  |          |
| 1.208   | 0.8381   | 1.498    | -5.312    | -3.313  | -4.874   | -0.2119  | -0.8419    | -0.3919  | 1.118    |
| 1.39    | 0.91     | 1.1      | -0.06     | -1.901  | -1.662   | 0        | -0.73      | -1.81    | -0.64    |
| 1.18    | -0.03    | 0.9      | -1.82     | -1.921  | -2.382   | 0.38     | -0.67      | -1.48    | -0.82    |
| 1.32    | 0.5      | 0.75     | -1.47     | 0.3388  | -2.952   | 0.41     | -0.39      | -0.96    | -0.33    |
| 0.92    | 1.34     | 1        | -1.08     | -1.661  | -2.032   | -0.18    | -1.9       | -1.78    | 5.37E-10 |
| 0.08    | 0.42     | -0.17    | -1.56     | -2.091  | -2.702   | -3       | -2.11      | -1.27    | 5.37E-10 |
| -0.6888 | -0.02875 | 2.211    | -1.389    | -1.47   | 0.02875  | -0.7888  | -1.149     | -2.659   | -1.749   |
| -0.2788 | -1.379   | 0.4012   | 0.7212    | -0.26   |          | -0.9988  | -1.529     | -0.9287  | -1.049   |
| -0.3388 | -2.219   | 0.5112   | 1.001     | -0.02   | -4.851   | -4.189   | -2.139     | -3.339   | -3.489   |
| -0.08   | -1.14    | 0.2      | -2.98     | -1.781  | 2.568    | 0        | -2.21      | -1.76    | -1.43    |
| 0.1491  | -1.491   | -1.451   | -1.911    | -4.592  | 1.647    | -3.321   | -0.0009375 | 0.03906  |          |
| -0.7275 | -0.6575  | 0.9325   | 0.3125    | 0.00125 | 2.52     | -0.4975  | -0.4575    | -1.247   | -0.6575  |
| -1.24   | 1.04     | -0.47    | -2.34     | -3.041  | 1.158    | -1.9     |            | -0.75    | -1.26    |
| -0.9019 | 0.2081   | -0.3819  | -3.682    | 0.8069  | 0.9156   |          | -2.732     | -1.092   |          |
| -2.959  | 1.481    | 1.801    | -4.319    |         |          | -1.119   | -1.409     | -1.789   |          |
| -0.29   | 1.44     | 0.11     |           | 1.499   | 0.1075   | -3.77    | -0.53      | -1.22    | -1.22    |
| 0.5241  | 1.534    | 0.6241   | -2.686    |         |          | -3.426   | -0.7259    | -2.176   | 0.9041   |
| 0.5112  | -1.079   | 1.811    | -2.269    |         | 2.759    |          | -0.6887    | -1.779   | 0.1612   |
| -0.09   | 0.35     | 1.07     | -1.83     | 2.949   | -0.0125  | -2.37    | -2         | -1.56    | 0.41     |
| 0.48    |          | 1.1      | -2.13     | 0.2888  | 0.6675   | -0.92    | -0.09      | 0.08     |          |
| -1.1    | 0.32     | -0.2     | -2.6      | 3.589   | -0.5325  | 0        | 1.08       | 0.93     | -1.54    |
| 1.198   | -0.3219  | 0.008125 | -1.742    |         | -1.994   | 0.2681   | -0.8419    | -0.8719  | -2.152   |
| 0.7791  | 1.519    | 0.4491   | -1.471    | 2.668   | 0.3566   | -0.3509  | -0.3509    | -0.6609  |          |
| -1.202  | 1.228    | -1.342   | -1.802    | 3.247   | -1.054   |          | -0.8119    | -3.172   | -2.132   |
| -0.025  | 1.815    | -1.505   | -2.905    | 4.204   | -0.7475  | -2.505   | -0.415     | -2.585   |          |
| 0.18    | 0        | -0.15    | -2.13     | 0.5288  | -0.0825  | 0.42     | -1.95      | -1.71    | -1.99    |
| -1.688  | 0.9525   | -0.6175  | 0.5225    | 1.691   | 0        | -2.808   | -0.9775    | -0.4675  | -2.178   |
| -2.482  | -0.3219  | -1.692   | 1.788     | 1.667   | 1.136    | -0.3319  | -1.662     | 0.1081   | -2.392   |
| -0.31   | -0.23    | -0.81    | 0.65      | 0.5687  | 0.6375   | -0.99    | 0          | 0.04     | -0.39    |

Table 2

| SW872   | BT-549  | HS578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D    |
|---------|---------|----------|-----------|----------|----------|---------|---------|----------|---------|
| ARRY8X  | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X |
| -0.9238 | -0.7138 | 0.1262   | 0.04625   | 0.175    | -0.04625 | -0.23   | -3.524  | -1.554   | -5.174  |
| 0.11    | -0.31   | -0.84    | 1.15      | -0.9113  | -0.0125  | -0.237  | 0       | 0.21     | 0.98    |
| 0.3663  | 0.02625 | 1.466    | 0.04625   | -0.025   | -0.9762  | -0.9237 | -0.5137 | 0.3425   | -1.184  |
| 1.582   | 0.3925  | 2.702    | -0.5375   | 0.00125  | -0.54    | -0.6575 | 0.0025  | 0.3425   | 0.3125  |
| 2.359   | -0.1509 | 0.4691   | 1.089     | -1.072   | 0.4566   | -2.271  | -1.151  | -0.4609  | -0.1109 |
| -0.7275 | 1.342   | 2.222    | -0.2875   | 0.00125  | 0.18     | -1.378  | -0.1175 | -0.1675  | -1.898  |
| -0.96   | 1.42    | -0.12    | 0.16      | -0.7312  | 0.5775   | -1.27   |         | -0.46    | 0.49    |
| -1.84   | 0.49    | -1.25    | 0         | -0.7112  | 0.5675   | -2.09   |         |          | 0.24    |
| -0.2419 | 0.5481  | 0.3781   | -0.1419   | -0.09313 | 0.08563  | -1.852  | -0.2419 | 0.2881   | -0.9219 |
| 0       | -0.13   |          | -0.95     | 0.5388   | 0.8975   | -1.68   | -0.62   | 0.01     | 0.42    |
| -2.219  | -1.029  | -1.859   | -1.339    |          | 3.949    | -2.779  | -2.709  | -0.4587  |         |
| 2.688   | -0.7119 | -0.01188 | -1.512    | 1.597    | -0.07437 | -1.532  | -0.8019 | -0.7419  | -0.9719 |
| 0.17    | -0.18   | -0.25    | 0         | 2.299    | 1.388    | -2.82   | 0.43    | -1.05    | -0.3    |
| 0.41    | -0.96   | -0.09    | -1.83     | 2.539    | -1.172   | -1.53   | -0.26   | 0        | -0.69   |
| 0       | 0.19    | 0.74     | -0.42     | -0.2512  | -1.782   | -0.67   | 0.77    | -0.55    | -0.34   |
| 0.2469  | 0.5669  | -2.353   | 0.8769    |          | 0.1444   | -2.853  | 0.6669  | -2.913   | -1.703  |
| 0.065   | 0.275   | -0.635   |           | 0.5938   | 0.9725   | -1.685  | 0.155   | -1.295   |         |
| 0.7     | 1.65    | 1.51     | -3.27     | 0.8487   | -0.0025  | -0.3    | 0       | -0.6     | -0.2    |
| -0.3019 | 0.1281  |          | -1.302    |          | 2.856    | 0.7681  | 4.458   | -0.2319  | 0.4981  |
| -0.06   | -0.07   | -0.25    | 0         | 0.4888   | 2.588    | 0.23    | 2.63    | -0.14    | 0.05    |
| 0.62    | -0.84   | 1.29     | -1.45     | 1.549    | 3.958    | 3.79    | 1.26    | -0.01    | 0.01    |
| -0.075  | -0.105  | -0.335   | -3.495    |          | -0.6175  | 0.075   | 1.325   | -1.445   | 1.495   |
| -2.66   | -1.26   |          | -2.3      |          |          | 0.92    | -0.51   | 2.75     | 2.35    |
| -0.6075 | -0.0175 | -1.858   | 1.312     | 0.00125  | -0.44    | 0.9225  | 0.1925  | -0.3875  | 0.3125  |
| -1.22   | -1.33   | -1.03    | 0         | 0.04875  | 1.208    | 0.18    | 0.87    | 0.33     | -0.73   |
| -0.7953 | -0.2453 |          | -0.6353   |          | -0.8978  | 0.2247  | 0.1747  | -0.2653  | -1.585  |
| -0.96   | 1.2     | -0.67    | 0         | 0.9188   | -0.3425  | 0.66    | -0.88   | 0.02     | -0.15   |
| -1.389  | 0.6012  | -1.659   | 0.2312    | 0.42     | -0.7712  | 0.01125 | 0.08125 | -0.6087  | -0.4288 |
| 0       | -1.33   | -0.82    | 0.82      | -0.8812  | 0.4575   | -1.52   | 1.19    | -0.58    | -0.12   |
| 0.34    | -1.12   | -0.29    | 0.18      |          | -0.2525  | 1.29    | 1.61    | 0.4      |         |
| -0.07   | -1.67   | -1.26    | -1.09     |          | 1.638    | 2       | -1.7    | -0.76    | 1.49    |
| 2.311   | 1.131   |          | 0.4112    | -1.03    |          |         | 5.271   | -0.1987  | 1.521   |
| 1.15    | 0.07    | 0.89     | -1.62     | -1.151   |          | -2.74   | 3.82    | 1.21     | 2.25    |
| -0.2494 | 0.06062 | -0.1194  | 0.9506    | -1.241   | 1.048    | -2.469  | 1.451   | 0.7806   | 2.081   |
| -0.7088 | 1.141   | 0.6512   | 0.05125   |          |          | -1.859  | 3.981   | -0.2787  | 0.09125 |
| 1.31    | 1.54    | 0.18     | 1.24      | -1.301   | -1.062   | 0       | 1.93    | 2.69     | 3.6     |
| -0.5694 | 0.5606  | 0.5806   | 0.5306    |          | -1.642   | 0.3506  |         | 0.4506   | 1.191   |

Table 2

| SW872    | BT-549   | HS578T  | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|----------|----------|---------|-----------|---------|----------|---------|---------|----------|----------|
| ARRY8X   | ARRY10X  | ARRY9X  | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| -1.839   | -1.069   | -1.889  | -1.039    |         |          | -1.129  | 2.191   | 1.581    |          |
| -0.8619  | 2.198    | 0.6581  | -3.562    | 1.057   | -0.7544  | 0.6081  | -0.1819 | 0.9981   | 0.2081   |
| 0.3241   | -1.196   | -0.1259 | -2.076    | -0.6072 | -2.808   | -1.736  | 0.1341  | 2.124    | -1.666   |
| 0.81     | -1.36    | 1.43    | -1.89     |         |          | 1.27    | -1.06   | 0.84     |          |
| 0.13     | -0.03    | 0.38    | 0.22      | -0.4212 |          | 0.03    | -0.62   | 0.3      | 0.07     |
| 1.81     | 0.37     | 0.78    | 0.08      | 1.759   | -0.6125  | -0.13   | -0.05   | -0.15    | 5.37E-10 |
| 0.305    | 0.365    | 1.505   | 1.145     | -1.566  | -2.497   | -0.105  | 0.105   | -0.905   | 0.335    |
| -0.16    | 0        | 0.95    | 0.83      | -0.5512 | -0.1725  | 0.16    | 2.94    | 1.84     | -0.25    |
| 0.08125  | 0.2712   |         | 0.8112    | 2.61    | 0.07875  | -0.5988 | 0.6413  | 0.3313   | -0.1188  |
| 0.95     | 0.5      | 1.17    | -0.83     | 1.689   | -0.3925  |         | 1       | 0.12     |          |
| -0.3144  | 1.136    | 0.9656  | -0.4144   |         |          | -1.534  | 1.316   | 0.3356   | -0.4944  |
| 1        | 0.76     | 2.37    | -0.05     | 3.009   | 0.1275   |         | 0       | 0.71     | 0.29     |
| 0.5206   | 1.371    | 3.061   | -1.259    | 1.159   |          |         | 0.3106  | -0.5694  |          |
| 2.159    | 2.339    | 1.539   | -0.6209   | -1.202  | -1.603   | -0.6109 | -0.3109 | 0.1291   | -0.1509  |
| 0.06     | 0.13     | 0.96    | 0.08      | -0.6212 | -2.182   |         | 0.53    | 0.57     | 5.37E-10 |
| 0        | 0.17     | 0.82    | -0.34     | 2.469   | -1.682   | -0.21   | -0.47   | 0.04     | -0.49    |
| 0.5356   | 0.04562  | 1.336   | 0.07562   | -0.1956 | -1.197   | 0.2056  | 0.3756  | -0.2944  |          |
| -0.00375 | 0.6662   | 2.406   | -0.08375  | 0.005   | -2.126   | 0.7762  | 0.1663  | -1.954   | -0.6938  |
| -0.17    | 0.38     | 2.66    | 0.22      | -0.1713 | -2.512   |         | 0.78    | 0        |          |
| 0.18     | 0.43     | 1.58    | -0.11     | 0.5488  |          | -0.48   | 0.34    | -0.06    | -0.71    |
| 1.035    | 0.235    | 3.255   | -0.135    | 1.734   | -1.577   | -1.135  | 0.135   | -0.645   | 0.325    |
| 0.66     | 0        | 1.31    | -0.34     | 2.489   | -0.4825  | -1.24   |         | 0.11     |          |
| 4.531    | 2.071    | 3.221   | -0.03875  | 1.11    | -0.9212  | -1.059  | 0.4113  | -0.1887  | -0.01875 |
| 0.3312   | -0.01875 | 0.9112  | -1.769    | 0.01    | -1.331   | -1.889  | 0.06125 | 1.181    | 0.1512   |
| -0.08875 | -0.04875 | 1.521   | 0.1612    | 0.18    | -2.171   |         | 1.381   | 0.1113   |          |
| -0.3     | 0        | 1.07    | -0.37     | 0.2688  | -0.3125  | -0.05   | 1.8     | -0.24    | 0.09     |
| 0.495    | 0.095    | 0.685   | -0.135    | 0.06375 | -0.4375  | -0.995  | 0.695   | 0.495    | 0.045    |
| 0.225    | -0.065   | 0.345   | -0.135    | -0.3562 | -0.1175  | 0.065   | 1.015   | 0.395    |          |
| 1.718    | 0.02812  | 2.078   | 0.2781    | 1.597   | -0.8644  | -1.422  | 0.5281  | 0.4481   | 0.6181   |
| 0.54     | 0.31     | 2.76    | 0.08      | 0.9588  | -0.8025  | -0.04   |         |          | 5.37E-10 |
| -0.59    | 0.92     | 2.99    | -0.37     | 1.479   | -0.7525  |         | 3.13    | -0.14    | 0.91     |
| 0.4881   | 0.09812  | -0.2219 | 0.2481    | 0.09687 | 0.1956   | -0.5119 | -0.3119 | 0.04813  | 0.3581   |
| 0.7447   |          | 0.4847  | -1.195    | -1.567  | 0.7422   |         | -0.2253 | -1.135   |          |
| -0.135   | 0.295    | 1.165   | 0.645     | -0.9563 | -0.7175  | 1.045   | 0.135   | -0.625   | 1.285    |
| -0.025   | 1.355    | 1.705   | 1.025     |         | -1.537   | 0.485   | 0.855   | 0.295    | -0.475   |
| -1.011   | -0.1509  |         | 0.5091    | -2.472  | 0.06656  | -0.3009 | 4.549   | -0.5209  | -0.03094 |
| 1.335    | -0.215   | 3.305   | -0.295    |         |          | 2.085   | -0.035  | -2.065   | -2.895   |



Table 2

| SW872    | BT-549   | HS578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|----------|----------|----------|-----------|----------|----------|---------|---------|----------|----------|
| ARRY8X   | ARRY10X  | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| -0.5238  | 0.3162   | 0.1662   | 0.6962    |          | -0.3262  | 0.08625 |         | -0.1037  | -0.3838  |
| 0.1056   | 0.3456   | -0.7944  | 3.536     | -2.046   | -1.067   |         | 0.2156  | -0.8744  | -0.9544  |
| -1.854   | 0.4156   | 0.1156   | 1.146     |          |          | -1.594  | 0.8356  | -0.3944  | -1.714   |
| -0.185   | -0.315   | 1.405    | 2.815     | 0.8938   | -2.327   |         | 1.615   | 0.185    | -0.385   |
| 0.42     | -0.03    | 1.84     | 3.85      | 1.779    | -1.662   | -0.34   | 0       | -0.83    |          |
| 0.22     | -0.27    | 0.51     | 0.99      | 4.419    | -0.5825  | 0       | -0.05   | -2.54    | -2.04    |
| -0.06875 | 2.181    | 3.031    | 2.331     | 0.53     | 0.06875  | 0.5112  | 0.2113  | -0.6187  |          |
| -0.36    | -0.25    | -0.46    | 6.58      | 6.099    | 0.1475   | 0       | 1.12    | 0.19     | 0.16     |
| 0.97     | 0.36     | 1.81     | 8.2       |          | -0.3725  | -0.93   | 0.9     | 0.36     | -0.47    |
| -0.5594  | -0.5894  | 0.1706   | 6.971     | -0.3106  | -1.492   | -2.049  |         | -1.239   | 0.3106   |
| 0.055    | -0.775   | 1.105    | 4.615     | 0.8337   |          | -1.225  | -1.015  | -0.055   |          |
|          | 0.5712   | 1.191    | 6.511     |          | -0.1212  | 1.171   | 0.1212  | 0.2412   |          |
| 0.1903   | -0.4597  | 2.3      | 4.04      | -0.01094 |          | -1.33   | 1.51    | 4.16     | 3.29     |
| 0.18     | -0.41    | 0.17     | 5.05      | -0.6812  | 0.7075   | -0.41   | -0.21   | 0.51     | 0.96     |
| 0.145    | 0.295    | 0.325    | 4.975     | -0.4062  | -0.7075  | -0.445  | 0.335   | 0.495    | 0.115    |
| -0.2459  | 0.1641   | 0.7841   | 3.244     | -0.2072  | 0.5916   | 0.03406 | 0.1941  | -0.2759  | -0.6859  |
| -0.09875 | -0.6588  | 0.4912   | 6.441     | 1.9      | -0.5612  | -0.2387 | 1.001   | 1.011    | -0.07875 |
| 0.42     | -0.93    | 0        | 9.1       | 0.5188   |          | -1.8    | 0.73    | 0.85     |          |
| 0.2263   | -0.2238  |          | 9.076     | 0.225    |          | -1.674  |         | 1.396    |          |
| 0.015    | -0.015   | 2.085    | 9.095     | 0.7538   |          | -0.885  | 1.065   | 0.505    | 0.475    |
| 0.5825   |          | 0.8025   | 8.722     | 0.00125  |          |         | 0.6325  | 0.7525   |          |
| -0.4175  |          |          | 8.042     | 0.00125  | -0.76    | 0.0025  | -0.0475 | 0.0725   |          |
|          | 0.17     | -0.22    | 8.88      |          | 0.1175   | -0.02   | 0.51    | 0.37     | 0.02     |
| 0.008125 | -1.022   | -0.7719  | 4.768     | -1.573   |          |         | -0.2419 | 0.1781   | -0.6819  |
| -0.5509  | -0.03094 |          | 0.2791    |          | 0.7766   | 0.3291  | 0.7991  | 0.4391   | -0.04094 |
| 0.6691   | 0.2691   | -0.08094 | -0.4209   | 0.8378   | -0.3534  | -0.3409 | 0.7691  | -1.001   | -1.171   |
| 0.28     | 0        | -0.51    | 2.55      | -2.251   | -2.352   | 0.64    | -0.59   | 0.27     | 0.16     |
|          | 0.54     | 1.46     |           |          | -0.7225  | -2.42   | -0.27   | -0.39    | -0.18    |
| 0.1006   | -1.249   | 0.07062  | -0.9494   | 1.029    | -0.4319  | -0.8194 | -0.5294 | 0.1906   | 1.061    |
| 0        | -0.06    | -0.99    | -1.58     | 0.01875  | -1.622   | -0.58   | 0.35    | -0.28    | 0.15     |
| -0.44    | -0.29    | 0.01     | -0.01     | 1.199    | -1.262   | -1.45   | -0.54   | -1.31    | 0.61     |
| -0.16    | 0.62     |          | 0         | -0.4412  | -0.3825  |         |         | -0.13    | 1.38     |
| 1.151    | 0.5112   | -1.039   | -0.5688   |          | -0.3912  | -2.719  | 2.231   | 1.541    |          |
| 0.2306   | -0.5194  |          | -1.619    |          | 0.1681   | -1.739  | 0.2706  | 0.6706   | 0.1306   |
| -1.08    | 0        | 0.49     |           |          |          | -2.49   | 1.62    | -1.42    |          |
|          | 0.3306   | -0.09938 |           |          | 0.2681   | -3.089  | 1.211   | -0.5494  | 0.08062  |
| 0.25     | 0        | 0.73     | -0.63     | 0.2688   | -1.492   | -1.51   | 0.15    | -1.44    | -0.19    |

Table 2

| SW872    | BT-549   | HS578T   | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3  | BT-474   | MC7-NCI  | T47D     |
|----------|----------|----------|-----------|---------|----------|----------|----------|----------|----------|
| ARRY8X   | ARRY10X  | ARRY9X   | ARRY10X   | ARRY18X | ARRY17X  | ARRY12X  | ARRY13X  | ARRY15X  | ARRY14X  |
| 0.54     | 1.99     | 0.75     | -0.51     | -0.6512 | -1.482   | -0.21    | -0.04    | -0.39    |          |
| 1.88     | 0        | -0.32    | -0.8      | 2.299   | -3.262   | -1.5     | 1.5      | 1.82     | 2.06     |
| 0.93     | -1.38    | -0.02    | -1.65     | 2.139   | -2.632   | -1.97    | 1.78     | -2.24    | 1.19     |
| -0.065   | 0.455    | -0.365   | 0.065     | 1.404   |          | -1.725   | 0.135    | -0.265   |          |
| -0.275   | 0.005    | 0.085    |           | -1.026  | -1.107   |          | 0.355    | -0.225   |          |
| -1.48    | 3.23     | 0.77     | -2.22     | 1.529   |          |          | -0.95    | -1.89    |          |
| 1.045    | 1.655    | 1.885    | 0.215     |         |          |          | -1.735   | 0.595    | -1.065   |
| -0.06875 | 0.5412   | 1.541    | -0.8788   |         | -3.651   |          | 0.22     | -1.009   |          |
| 1.12     | 0.03     |          | -0.53     | 0.9988  | -1.242   | -0.22    | -0.26    | -0.8     | 0.12     |
| 3.14     | 0        | 1.62     |           | 1.359   | -0.5325  | -0.8594  | 0.4806   | -0.7894  | -0.4994  |
| 0.5606   | 0.7106   | 1.981    | -0.03938  | 1.47    | -1.941   | -1.499   |          | -0.1387  | -1.029   |
| 0.5812   | 1.341    | 0.9412   | -0.4888   |         | -2.442   | -0.24    | 0.66     | -1.12    | -1.41    |
| -1.13    | -0.29    | 1.12     | 0.14      |         | -1.942   | -1.95    | 0.09     | 0.07     |          |
| -0.63    | 0.25     | -1.28    | -0.92     |         |          | -0.83    | -0.08    | -0.05    | -0.52    |
| 0.32     | 0.7      | 0.05     | 0.73      |         |          |          | 2.026    | 0.8856   |          |
| 0.2156   | 0.5856   |          | -0.9656   | -0.9656 |          | -0.35    | 0.8      | 0.33     | 0.95     |
| 0        | 0.05     | -0.25    | 0.1       | 0.9088  | 0.0375   | 0.112    | 0.1313   | 0.2513   |          |
| -0.2088  | -0.08875 | -0.3988  | 0.6412    | -0.38   | 2.129    | -2.16    | -0.55    | 0.61     | 5.37E-10 |
| 0.98     | 1.21     | 0.36     | 1.54      | 0.9688  | 1.708    | -0.33    | -0.03    | 0.47     |          |
| -0.2     | 0.59     | 0        | 0.32      | 0.05875 | 0.2275   |          | -0.3637  | -0.2337  | 0.06625  |
| -0.4538  | 0.6262   | 0.2062   |           | 0.005   | 0.5738   |          | -0.165   | -0.795   | -0.065   |
| -0.635   | 1.195    | 0.495    | 0.175     | -0.4962 | 0.1225   | 0.41     | -1.23    | -0.67    | 0.62     |
| -0.12    | 0        | -0.59    | -1        | -0.8912 | -0.5625  | 2.131    | -0.03875 | 0.03125  | 4.331    |
| 0.6612   | -0.1688  | 1.661    | -0.08875  | 2.66    | -3.231   | 0.08     | -0.03    | 0.07     | 0.82     |
| -0.12    | 0.17     | -0.02    | 0.35      | -1.081  | 0.5875   | 0.285    | 1.195    | -0.285   |          |
| -0.505   | -0.285   | 0.375    | 0.105     | -1.056  | 0.4925   | 0.4925   | 0.0025   | 0.2125   | 0.6625   |
| -0.4175  | -0.0775  | 0.0725   | 0.1225    | 0.00125 | 0.74     | -1.37    | -0.75    | 0.36     | -0.05    |
| 0.22     | -0.08    | -0.57    | 0         |         | -0.7025  | -1.359   | 0.2113   | -0.00875 | -0.6588  |
|          | -0.9688  | -0.00875 | 3.121     | 0.01    | 0.7188   | 3.97E-10 |          | -0.17    | 1.40E-10 |
| 0.03     | -0.63    | 0.77     | -0.07     | -0.8712 | -2.082   |          | -0.16    | 0.16     | -1.43    |
| -1.86    |          | -1.39    | 1.25      |         |          | -0.09875 | -0.6187  | -0.3887  | -1.709   |
| -0.1488  | -0.7888  | -0.7588  | 0.01125   | 0.78    | 0.4788   | 0.34     | -0.2175  | -0.8675  |          |
|          | -0.1775  | 0.3325   | -0.7075   | 0.00125 |          | -0.55    | 0.21     | 0.3      | 0.45     |
| -0.16    |          | 0        | 0.2       | -0.5212 | -0.8325  | -0.76    | -0.38    | -0.06    | -0.21    |
| -0.2     | 0        | -0.89    | 0.83      |         | 1.128    |          |          | -0.23    | -0.18    |
| -0.23    | 0.18     | 0.62     | 0.3       | 1.339   | -0.1825  | 2.19     | -0.21    | 1.39     | 2.7      |
| -0.44    | -0.67    | 0.85     | 0         | 0.3488  | -1.152   |          |          |          |          |

Table 2

| SW872    | BT-549   | H5578T  | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|----------|----------|---------|-----------|---------|----------|---------|---------|----------|----------|
| ARRY8X   | ARRY10X  | ARRY9X  | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| 2.908    | 0.3581   | 3.888   | 0.1181    | 0.3569  | -1.444   | -0.9219 | 0.6681  | -0.6119  | -0.3819  |
| -0.3988  | 1.051    | -0.2588 | -1.895    | 1.674   | 2.263    | 0.015   | -0.505  | -0.015   | -1.235   |
| -0.255   | -0.015   | 0.535   | 0.1712    | 1.12    | -1.151   | 0.1812  | 0.6013  | -0.2087  | -0.4688  |
| 1.75     | -0.64    | 1.73    | 0.915     | -0.8262 | 0.3225   | 0.055   | -0.135  | 0.015    |          |
| -0.2894  | -0.3894  |         | 3.48      | -0.9212 | 2.538    |         | 0.62    | -0.76    |          |
| -0.09188 | 1.098    | 1.638   | 2.611     | 0.1994  |          | 0.1006  | -0.1894 | 0.2106   | 0.8906   |
| 0.3491   | -0.05094 | 0.06906 | -0.7219   | -1.263  | 0.3956   | -0.5819 | 0.8681  | 0.3681   | 0.7781   |
| -1.105   | -0.315   | -0.175  | -0.1909   | -0.2122 | 0.8866   |         | -0.4309 | 0.3991   | 0.6591   |
| -0.14    | 0.92     | 0.6     | 0.415     |         | -1.447   | -0.645  | -1.205  | 1.435    | 1.555    |
| 0.2081   | 0.1481   | 0.03812 | 0.4281    | -0.5212 | -0.3425  |         | -0.55   | -0.75    |          |
| -0.13    | -0.31    | 0.11    | 0.76      | 1.267   |          |         | 0.5181  | -0.3119  | -1.562   |
| 0.5      | 0.42     |         | 0.4088    | 0.8275  | 0        | 0       | 0.13    | 0.56     | -0.04    |
| 3.298    | 2.068    | 1.818   | -0.49     | 1.388   |          | -0.25   |         | -0.33    | 5.37E-10 |
| 1.426    | 1.396    | 0.2956  | -0.8819   | -0.1631 |          | 1.768   | 1.148   | -0.3419  | -0.6819  |
| -0.12    | -0.68    | 0.44    | 0.5256    |         | -0.4769  | -0.3644 | -0.7044 | 0.8556   | -0.9044  |
| -0.5     | 1.14     | -0.55   |           | -1.611  | -2.082   |         | -0.09   | 0.12     |          |
| -0.22    | -0.18    | 0.94    | 0         | 1.139   | 0.2275   | 0.2     | -1.15   | -1.03    | 0.58     |
| 0.705    | 1.195    | 0.095   | 1.51      | -2.261  | -2.172   | 2.6     | 0.52    | 1.47     | -0.11    |
| 1.69     | -0.41    | 0.81    | -1.475    | -0.9062 | 1.813    | 0.645   | -2.695  | 0.885    |          |
| 1.616    | -2.084   | 0.01562 | -0.51     | -0.8312 | -0.3125  | 2.55    | -0.65   | 2.13     | -1.91    |
| 1.64     | -1.29    | 0.8097  |           |         | -1.487   | 2.866   |         | 2.196    |          |
| 0.45     | -0.83    | -0.09   | -1.42     | 0.4984  | -1.483   | 3.12    | -0.9203 | 2.54     | -1.5     |
| -0.27    | 0        |         | 0         | 0.05875 | -0.7225  | 1.96    | -0.35   | 0.3      | 0.13     |
| -1.232   | 0.4381   | -1.172  | 0.61      |         | -1.642   | -0.44   | -0.14   | -0.28    | 0.09     |
| 0.81     | 0.07     |         | -0.9919   | -1.613  | 0.8156   | 0.5681  | -0.4919 | 1.328    | -1.592   |
| 0.2912   | 2.051    |         | -1.18     | -0.7312 | 0.8475   |         | 0.31    | 0.7      | -2.53    |
| -0.16    | 2.38     | 0.36    | 1.781     | -1.92   |          | -1.239  |         | 0.08125  | 1.041    |
| 1.41     | 2.77     | 1.81    |           | -1.291  | -1.172   | -0.8    | -0.72   | 0.4      |          |
| -0.765   | -1.015   |         | 1.02      | -1.111  | -1.092   |         | 0       | -0.41    |          |
| -1.175   | 0.375    |         | -1.885    | -0.6363 | -0.1975  | 0.505   |         | -0.055   | 0.055    |
| 0.7281   | -0.6619  | 1.198   | -0.455    | 0.04375 | -2.727   |         | 0.585   | 0.125    | -0.025   |
| 0.55     | 0.42     | 0.8     | 2.638     |         |          | -0.9919 | 1.208   | -1.432   |          |
| -0.01    | 2.36     | -0.5    |           | 1.019   | -0.1525  | 0       | -0.14   | -0.27    | 0.06     |
| 0        | 0.93     | 2.8     | -0.12     |         | 0.4275   | 1.41    | 0.44    | 0.65     | 0.8      |
| -0.05875 | 0.2912   | 3.761   | 0.14      | -1.341  | -0.5225  | 1.06    | 0.94    | -0.39    |          |
| -1.46    | 2.41     | 3.92    | 0.2612    | -0.5    | 0.4088   | 0.2112  | 0.5213  | -0.4087  | 0.08125  |
|          |          |         |           |         | -3.972   |         | 0       | -1.66    |          |

Table 2

| SW872   | BT-549  | HS578T   | RPM1-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|---------|---------|----------|-----------|----------|----------|---------|---------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| 0.7091  | 2.779   | 4.399    | -1.441    | 1.028    | -0.7834  | -1.141  | 1.089   | -0.4909  |          |
| -0.88   | 0.36    |          | -0.66     |          |          |         | 0       | -0.27    |          |
| -0.42   | 1.25    |          | 0.88      | 0.9088   | -1.022   |         | -0.21   | -0.62    | 0.6      |
| -1.77   | 0.34    |          | -0.15     |          | -0.7025  |         | 0.63    | -0.74    | 5.37E-10 |
| 3.156   | 0.6656  | 1.896    | -0.7044   | 4.234    | -2.587   | -0.2044 |         | -0.5744  |          |
| -0.05   | 0.34    | 0.59     | 0.91      |          |          |         | 0.42    | -0.46    | -1.49    |
| 0.06    | 0.06    | 0.85     | 0.13      | 4.209    | 2.198    | -0.53   | -0.33   | -0.12    | -0.06    |
| 0.2712  | -0.1688 | 1.171    | 0.6612    |          | 0.5888   | -0.7488 | -1.939  | 0.3213   | -0.08875 |
| 1.556   | -0.4244 | -0.2944  | 0.02562   |          | 0.4631   | 0.9056  | -0.3444 | 0.2956   | -0.05437 |
| 0.6625  | 1.012   | 0.7025   | 0.0225    |          | 0        | -0.3875 | -0.2875 | 0.0925   | -0.7175  |
| 0.42    | -0.4    | 0.48     | -0.2      | 4.959    | 2.338    | 0.01    | -0.59   | -0.01    | 0.38     |
| 0.785   | 1.125   |          | -0.035    | 5.804    | 2.703    | -0.745  |         | 0.645    | 0.035    |
| -0.31   | 0       | 1.5      |           | 2.699    |          |         | 0.32    | -0.84    |          |
| 1.328   | 0.7681  | 3.078    | 0.1581    | 6.317    | -0.8644  | -0.6219 | 0.1081  | -0.03187 | 0.4181   |
| -0.215  | -0.825  | 2.145    | 3.395     | 6.444    | -1.557   | -1.115  | -0.165  | -0.455   |          |
| -0.4094 | -0.1194 | 2.291    | -0.6094   | 7.199    | -1.752   | -2.309  | 0.4406  | -0.6594  | -1.689   |
| 3.01    | -0.8    |          | -0.73     |          |          | 0.57    | 0       | -0.29    | 0.33     |
| -0.025  | 0.525   | 1.645    | -1.505    | 5.704    |          |         | 0.025   | 0.725    |          |
| -1.285  | -1.635  |          | -0.805    | 6.954    | 0.6325   | -0.925  | 0.245   | -1.115   | 0.335    |
| -0.135  | -0.015  |          | 0.015     | 2.744    | -1.717   | 0.575   |         | 0.255    |          |
| -0.8044 | -0.4944 | 1.446    |           | 1.184    |          | 0.9756  | -1.084  | 2.086    |          |
| -0.66   | 1.01    | 1.05     | 0.27      | -0.00125 |          |         | 0.16    | 0.51     | -1.52    |
| -1.09   | 0.91    | 1.61     |           | 1.459    |          | 0.04    | -0.04   | 1.08     | -1.88    |
| 0.21    | -0.95   | -0.61    | -0.75     | 0.05875  | 0.8075   | 4.72    | -0.2    | 0.11     | 5.37E-10 |
| 0.87    |         |          |           |          | -1.642   |         | -0.35   | 0        |          |
| -0.9188 | 0.5412  | -0.08875 | -0.1888   |          |          | 3.041   | -0.6787 | -0.5587  | 0.3512   |
| 0.59    | 0       | -0.77    | 0.06      | 0.5588   | 3.538    |         | -1.04   |          | -1.46    |
| 0.7506  |         | 0.5806   |           |          | 4.678    |         |         | -0.3794  |          |
| 0       | 1.05    | 0.4      | 0.53      | 2.499    | 2.008    | 1.26    | 1.08    | -0.14    | -0.92    |
| 0.365   | 0.725   | 0.775    | 0.895     | 1.364    | 1.773    | 0.045   | -1.075  | -0.545   | -1.315   |
| 0.19    | -0.28   |          | 0.84      | 1.599    | 1.708    |         | -0.33   | -0.3     | -1.2     |
| -0.3109 | 1.659   | 3.019    | -0.1309   | 0.6178   | -0.9634  | -0.9009 | 0.2791  | -1.631   |          |
| -0.65   | 0.71    | 0.31     | -0.15     | -0.8812  | -1.362   | -1.55   | 1       | 0.09     | 0.11     |
| 0.75    | 0.21    | -0.45    | 0         | -0.6712  | -1.102   | -1.49   | 0.23    | 0.34     | -1.2     |
| 0       | -0.11   | -1.44    | -0.37     | 1.019    | 0.5275   | -1.52   | 0.3     | -0.76    | -0.08    |
| 0.5641  | -1.136  | -0.6859  | -0.9459   |          |          | 1.354   | -1.116  | -1.176   | -1.916   |
| 0.12    | 0       | -1.16    | -0.04     | -0.3812  | 1.208    | 0.59    | -0.05   | 0.04     | -1.01    |

Table 2

| SW872   | BT-549  | HS578T  | RPML-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|---------|---------|---------|-----------|---------|----------|---------|---------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| -1.095  | -1.025  | -0.195  | 1.545     | 4.794   | 4.013    | -0.215  | 0.765   | 1.355    | 0.195    |
| -0.05   | -0.59   | -1.15   | 1.02      | -0.1712 | 3.058    | 0       | 1.28    | 0.63     | 0.34     |
| -1.49   | -0.65   | -0.96   | 3.04      | 1.639   | 4.358    | -0.21   | -1.81   | -0.49    | 5.37E-10 |
| 0.16    | -4.38   | -3.37   | 1.07      | -0.3013 | 0.8275   | -0.83   | -0.86   | 0        | -2.41    |
| 0.26    | -2.45   | -1.02   | 1.3       | -2.351  | 1.478    | 1.16    | -0.22   | -0.43    | 0.3      |
| -1.322  | -3.812  | -3.462  | 3.098     | -2.143  | 2.196    | 0.5681  | -0.4819 | 0.2681   | 1.188    |
| -1.639  | 0.09125 |         | 2.111     | -1.04   | 0.7188   | 0.8913  | 1.411   | -0.9187  | 0.3313   |
| -0.09   | -0.25   | 0       | -0.78     |         | 0.0975   | 0.64    | 0.97    | -1.18    | 0.79     |
| -1.45   | -1.14   | -1.7    | 0.19      |         | 1.488    | 0.42    | 2.61    | -2       | 0.24     |
| -1.1    | -2.18   | -0.02   | 4.17      | -1.391  | -0.2625  | 0.75    | 1.41    | 0        | 2.73     |
| -1.429  | -2.089  | -1.689  | 3.721     | -2.81   | 0.09875  | 0.8313  | 0.3913  | -0.4787  | 2.361    |
| -1.84   | -0.46   | 0.42    | 1.06      | -0.6212 |          |         | 0.82    | -0.85    |          |
| -0.1519 | -1.172  | -0.9519 | -1.452    | 0.9369  | -1.184   | -0.1019 | 1.548   | 0.04813  | 0.01812  |
| -2.436  | -2.616  | -1.336  | 1.904     |         | -0.9284  | -1.646  | 0.9841  | -1.026   |          |
| -0.8288 | -1.179  | -1.319  | 1.521     |         | -2.121   | 2.601   | 1.401   | -0.7387  | 0.2812   |
| -0.17   | 0       | -1      | -0.55     | -0.4812 | -0.8525  | 2.78    | 1.83    | -0.79    | -0.46    |
| 2.302   |         | 0.2425  | 2.562     |         | 0        | 1.322   | 1.022   | -0.0675  | 2.922    |
| 3.835   | -0.865  | -0.935  | 3.775     |         |          | 2.065   | 2.765   | 0.135    | 3.975    |
| 1.83    | -1.34   | -0.79   | 1.2       | -0.5513 | 0.0675   | 0.71    | 0       | 0.81     | 0.73     |
| -0.03   | -0.3    | 0.91    | 5         |         | -0.7125  |         | 0.98    | 3.37     |          |
| -0.1894 | 0.4306  | -0.2494 | 0.8306    | -0.5806 | 0.9481   | 1.621   | 1.821   | 2.391    | 1.791    |
| 0.12    | 0.24    | 0.65    | 0.49      | -0.6313 | 0.1875   | -0.63   | 0       | 0.29     | -2.91    |
| 0       | 0.72    | 0.71    | 0.52      | -1.091  | -0.1725  | 0.35    | 0.24    | 0.69     | 0.29     |
| -0.7309 | 0.9591  | 0.9591  | -0.02094  |         |          | 2.279   | -0.2609 | -0.7609  | -0.04094 |
| 0.76    | 0       | 0.73    | 2.14      | -0.4412 | 1.618    | 0.4     | -0.21   | 2.28     | -0.65    |
| -1.18   | 0.1     | -0.03   | 1         | -3.151  | 1.558    | -2.54   | 1.15    | 2.14     | -1.04    |
| 0.1556  | -1.244  | -2.074  | 1.626     | -3.676  | 4.323    | 1.726   | 1.806   | 2.056    | 1.696    |
| 0.775   | 0.085   | -0.255  | 0.585     | 2.864   | 1.513    | -0.175  | 0.255   | 0.575    | 0.655    |
| 0.62    | 0.07    |         | 0.67      | 3.109   | 1.528    | 0       | -0.03   | 0.87     | 1.05     |
| 0.105   | -0.105  | 0.335   |           | 1.724   | 2.063    | 0.255   | -2.025  | 1.345    | -1.515   |
| -0.81   | -0.63   | -0.67   | -0.04     | 2.549   | 1.778    | 0.43    | 0       | 2.13     | -0.43    |
| -0.09   | -0.1    | 0.36    | 0.69      | 1.949   | 1.098    | 0.17    | 0.19    | -1.27    | -0.69    |
| -0.3    | 0.25    | 0.16    | 0.71      | 0.7687  | 1.328    | 0.53    | 0       | -0.09    | -0.05    |
| 2.201   |         | -0.3888 | -0.3088   | 4.27    | 3.889    |         | 2.291   | -0.1787  |          |
| 0.565   | -0.065  |         | -0.015    | 3.904   | 4.753    |         | 0.015   | 0.505    |          |
| 0.09    | 0.31    | -0.72   | -1.27     | 3.449   | 1.678    |         | 0.74    | 0.86     | 5.37E-10 |
| -0.5887 | 0.3712  |         | -0.07875  | 2.89    | 2.599    | 1.181   | 0.2113  | 0.2613   |          |

Table 2

| SW872    | BT-549  | HS578T    | RPM1-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474   | MCF7-NCI | T47D     |
|----------|---------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| ARRY8X   | ARRY10X | ARRY9X    | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X  | ARRY15X  | ARRY14X  |
| -0.22    | -0.67   | -0.96     | 0         | 1.239    | 2.228    | 0.11     | 0.39     | 0.97     | 0.72     |
| 1.57     | -1.91   | -0.28     | -1.49     | -0.1612  | 1.498    |          | 1.92     | 1.28     | 5.37E-10 |
| 1.261    | 0.3412  | -0.3688   | -2.269    | 1.38     | 1.239    |          | -0.8887  | 0.2713   | 0.04125  |
| -0.01    | 0.47    | 0.46      | 2.34      | 0.6887   |          | 2.34     | 0        | 0.16     | -0.91    |
| 0.01125  | -0.8088 | -0.3088   | 0.5012    | 2.21     | 1.269    | -0.06875 | -0.4187  | 1.971    | -0.9988  |
| 0.29     | 0.03    | -1.1      | 0.84      |          | 0.9775   | -0.11    | -0.48    | 0.57     | -0.03    |
| 0        | 0.98    | -0.74     | 0.75      | 0.4488   | 2.328    |          | -1.39    | 1.67     | 0.08     |
| -0.1138  | 0.4062  |           | -0.6638   | 0.135    | 0.07375  | 1.056    | -0.07375 | 1.676    | 1.046    |
| 0.09     | -0.67   |           | 2.45      | 1.689    | 2.348    | -2.98    | -0.12    | 0        | 0.17     |
| 0.39     | 0       | -0.14     | 1.79      | 0.8388   | 1.718    | -5       | -0.33    | -0.01    | 0.61     |
| -0.02    | 0       | -1.09     | 1.69      | 1.079    | -1.432   |          | 1.86     | 0.57     | 2.47     |
| -0.08438 | 0.2056  | -0.8244   | 0.5456    |          | 0.1831   | -1.504   | 0.5256   | 0.08563  | 0.8756   |
| 1.57     | 2.64    | 2.34      | 1.76      | 2.909    | -1.262   | -1.82    | 0.52     | 1.77     | 5.37E-10 |
| 1.27     | 1.63    | 0.25      | 3.01      | 2.259    | -0.9025  | -1.14    | -0.24    | 2.22     | 5.37E-10 |
| -0.1319  | 0.3781  | -0.2619   | 1.238     | 1.327    | 2.436    | 1.278    |          |          | -0.7519  |
| 1.57     | -0.14   | -0.43     | 0.89      | 1.019    | 1.208    | 1.24     | 0.23     | 1.26     | -0.14    |
| 1.27     | 1.63    | -1.99     | 2.99      | 2.309    | 1.568    | -4.18    | 2.67     | -1.79    | -1.56    |
| 5.70E-09 | 0.06    | 0         | 2         | 1.559    | 0.2275   |          | 0.59     | -0.46    | -1.12    |
| 0.11     | -1.3    | 0.05      | 2.2       | 0.2588   | 1.088    | 0.23     | -0.86    | 0.26     | -0.5     |
| 1.39     | -2.48   | -0.16     | 2.58      | 0.9288   | 0.5975   | 0.23     | 0.22     | 0.91     |          |
| 5.23E-09 | -0.16   | -0.56     | 0         | 0.5288   | 2.028    | 0.06     | -0.17    | 0.7      | 0.46     |
| 0.9      | 0.3     | -0.08     | 0.06      | 0.4687   | 1.058    | 1.48     | -1.03    | 0        | -0.16    |
| 0        | 0.95    | 0.54      | 1.68      | -0.01125 | 1.758    | 0.58     | -0.32    | -0.2     | -0.03    |
| 1.38     | 1.07    |           | 2.48      | 1.429    | 2.308    | 0        | -0.5     | -0.48    | -0.51    |
| 0.9713   | -0.4588 | -0.5888   | 1.881     | 1.79     | 2.779    | -0.1287  | -0.7587  | 0.5613   | -0.9887  |
| -0.47    | 0.09    | 0.27      | 0.57      | 0.7788   | 1.738    | 0.4      | -0.33    | -0.56    | -0.22    |
| 0.07     | 0       | -0.78     | 1.23      | 1.349    | 1.028    | 0.94     | 0.4      | 0.77     | 0.92     |
| 0.48     | -0.08   | -0.66     | 1.37      | 1.319    | 0.8875   | 2.73     | 0        | 0.76     | 0.92     |
| 0.07     | 0.07    | 0         | 0.1       | 0.4488   | -0.0325  | 0.67     | -0.36    | 0.64     | 0.52     |
| -0.005   | 0.625   | 0.085     | 0.425     | 1.324    | 1.973    | 0.005    | -0.585   | 1.235    | -0.415   |
| 0        | -0.17   | 0.29      | 0.73      | 0.03875  | 1.378    | 0.14     | -0.89    | 0.88     | -0.54    |
| 0.05     | -0.59   | -0.13     | 1.33      | 0.5388   | 3.798    | 0.8      | 0.72     |          | -0.05    |
| -0.815   | 0.055   | -1.015    | 1.655     | 0.9438   | 3.833    | 0.015    | -0.405   |          | -0.015   |
| -0.56    | 0.33    | -0.79     | 0.53      | 0.2688   | 1.398    | -0.23    | -0.16    | 1.31     | 0.18     |
| -0.27    | 1.11    | -5.02E-09 | 1.57      | 1.779    | 1.488    | 0.46     | 0.41     | 0.7      | 5.37E-10 |
| 0.7      | 1.63    | 0.29      | 0         | -0.4012  | 0.6575   | 0.25     | -0.29    | 0.12     | 0.65     |
| 0.06406  | 0.4741  | 0.1041    | -0.3859   | 0.5228   | 0.8916   | 0.1041   | -0.2459  | -0.1459  | -1.156   |

Table 2

| SW872    | BT-549   | H578T   | RPMI-8226 | MOLT4     | NB4+ATRA | SK-BR-3  | BT-474  | MCF7-NCI | T47D     |
|----------|----------|---------|-----------|-----------|----------|----------|---------|----------|----------|
| ARRY8X   | ARRY10X  | ARRY9X  | ARRY16X   | ARRY18X   | ARRY17X  | ARRY12X  | ARRY13X | ARRY15X  | ARRY14X  |
| 0.00125  | 0.6812   | 0.1912  | 1.101     | 0.2       | 1.419    | -0.8988  | -0.9987 | 0.4813   | -0.1688  |
| 0.6769   | 0.7769   | 0.3869  | 0.7469    | -0.004375 | 0.5044   | -0.2731  | -0.4531 | 0.4369   | -0.1231  |
| 0.7706   | 0.7606   | -0.5094 | 0.8806    | 0.2994    | 0.2881   | -0.6794  | -0.1594 | 0.9306   | -0.1994  |
| 0.1212   | -0.2588  | -0.5788 | 0.6412    | -0.04     | 0.08875  | 1.231    | 0.7013  | 1.211    | 0.7512   |
| 0.7      | 0        | -0.68   | 0.08      | 0.8388    | 1.778    | 0.2      | -0.7    | -0.08    | 0.11     |
| 0.21     | -0.04    | 0       | 0.01      | 0.8188    | 0.4775   | 0.17     | -0.77   | 0.03     | -0.43    |
| -0.96    | -0.32    | -0.4    | 1.15      | 2.069     | 2.848    |          | 0       | 0.58     | 0.02     |
| 1.09     | -0.01    | -0.54   | 1.26      | 2.139     | 0.2475   | 3.89     | 0.61    | 2.57     | 1.33     |
| 0.57     | 0.06     | -0.27   | 1.27      | 0.1388    | 1.258    | 0.83     | 0.19    | 1.48     | 0.47     |
| 0.1613   | -0.5688  | -0.9488 | 0.1312    | 0.59      | 0.3388   | 0.02125  | -0.7087 | 0.4913   | -0.2887  |
| 0.2912   | 0.4812   | -1.809  | 0.7912    | 2.12      | 1.359    | -1.239   | -0.4387 | 1.051    | -1.029   |
| 0.37     | 0.21     | -1.01   | 0.88      | 1.069     | 1.488    | 1.1      | -0.07   | 0        | 1.38     |
| 0.5241   | 0.6641   |         | 1.024     | 1.353     | 0.9616   | -0.02594 | -0.4159 | 0.8241   | 1.704    |
| 0.92     | 0.18     | -0.38   | 0.57      | 0.7988    | 0.2375   | -0.32    | -1.18   | 0.11     | -0.51    |
| 0        | 0.54     | 0.51    | 1.23      | 1.399     | 1.018    | 0.74     | -0.72   | 0.19     | -0.8     |
| 0.2      | 0.28     | 0       | 0.56      | 0.8288    | 1.348    | -0.05    | -0.32   | 0.84     | 0.02     |
| 0.79     | -0.01    | -1.3    | 0.13      | 1.009     | 0.1375   |          | -1.21   | 0        | -0.52    |
| 0.22     | 0.36     | -0.65   | 1.63      | 1.639     | 2.348    | -0.03    | -0.37   | 1.88     | 1.2      |
| 0.89     | 0.49     | -0.19   | 2.14      | 2.099     | 2.848    | -0.08    | 0       | 2.49     | 1.47     |
| 0.6081   | 0.3681   | -0.1119 | 0.4681    | 1.187     | 1.066    | -0.4119  | -0.6619 | 0.1981   | 1.258    |
| 0.69     | 0        | -0.7    | 0.48      | 0.5788    | 0.9475   | 1.11     | -0.13   | 0.53     | -0.42    |
| 0.49     | 1.43     | -0.19   | 0         | 0.4388    | 0.9675   | -0.88    | -0.46   | 0.91     | -0.24    |
| -0.1     | 0.28     | 0       | -0.08     | 1.499     | 2.158    | 0.08     | -0.71   | 0.93     | -1.16    |
| 0.08     | 0.33     | 0.06    | 0.14      | 1.269     | 0.2075   | 0.07     | -0.23   | 0        | -0.44    |
| 0.47     | 0.02     | -0.58   | 0.67      | 0.5387    | 0.3575   | 0.8      | 0       | -0.4     | -0.16    |
| 0.04     | 0.53     | -0.05   | 0.99      | 0.7188    | 1.688    | 0        | -0.4    | 0.78     | 0.27     |
| -0.00875 | -0.1988  | -0.9088 | 0.2312    | 2.2       | 2.339    | 0.7913   | 0.4713  | 1.541    | 1.401    |
| 0        | 0.43     | -0.72   | 1.74      | 1.549     | 1.618    | 0.13     | 0.48    | 1.22     | 0.92     |
| 0.25     | 0        | -0.23   | 2.25      | 0.9188    | 2.598    | -1       | 0.53    | 1.1      | 1.4      |
| 0.44     | 0.96     | -0.28   | 2.25      | 1.809     | 1.868    | 0        | 0.34    | 0.5      | -0.1     |
| -0.1788  | -0.03875 | -0.8588 | 2.391     | 1.98      | 1.919    | 0.2412   | 0.2413  | 1.321    | 0.5012   |
| -0.5488  | 0.3012   | -1.309  | 2.621     | 1.97      | 1.999    | 0.4312   | 0.3313  | 1.381    | 0.1312   |
| 0.17     | -0.66    | -0.38   | 1.81      | 1.999     | 2.488    | 0        | 0.39    | 1.44     | 0.2      |
| 0.25     | 0.2      | -0.24   | 1.59      | 1.419     | 3.038    | -0.12    | 0.62    | 0.84     | 5.37E-10 |
| -0.46    | 0.39     | -1.17   | 1.1       | 1.759     | 1.578    | 0.55     | 0       | 1.09     | 0.23     |
| 0.45     | 0.92     | -1.13   | 0.83      | 2.039     | 1.698    | 0.3      | 0.27    | 1.52     | 5.37E-10 |
| -0.245   | 0.245    |         | 1.435     | 1.494     | 1.583    | 0.865    | 0.335   | 0.925    | 1.885    |

Table 2

| SW872   | BT-549  | HS578T    | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|---------|---------|-----------|-----------|----------|----------|---------|---------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X    | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| 0.01    | 0.6     | 0.1       | 0.99      | 1.179    | 1.208    | 1.27    | -0.94   | 1.4      | 5.37E-10 |
| 0.81    | 0       | 0.61      | 0.41      | 0.8388   | 1.968    | 0.89    | -1.11   | 0.77     | -0.15    |
| 0.08125 | 1.351   | -0.8088   | 0.6412    | 0.44     | 1.089    | 0.1013  | -0.5987 | 0.5613   | -0.03875 |
| 0.2512  | 1.231   | -0.8488   | 0.5512    | 0.55     | 1.009    |         | -0.6087 | 0.4413   | -0.08875 |
| 1.192   | 0.8825  | -0.5975   | 0.4125    | -0.3288  | 0        | -0.6675 | -0.9375 | 0.5425   | 0.2325   |
| 0.62    | 0.44    | 0         | 0.05      | 0.9688   | 0.2775   | -0.48   | 0.04    | 0.83     | -1.29    |
| 0.6012  | 0.2612  | -0.08875  | 0.5912    | -0.44    | 0.4588   | 0.1212  | -0.6187 | 0.8613   | 0.03125  |
| 0.06    | 0       | -1.03     | 0.9       | 0.6988   | 1.038    | 0.6     | -0.66   | 1.24     | 0.95     |
| 0.78    | 0.41    | -0.22     | 0.44      | 0.07875  | 0.8375   | 0.3     | -0.16   | 0        | -0.55    |
|         | -0.3559 | -0.4459   | -0.08594  | 0.1728   | 0.7116   | 1.304   | -0.6759 | 0.7941   | 0.4341   |
| 1       | 0.82    | 0.24      | 2.49      | -0.4112  | 0.9975   | -0.23   | 0.2     | 0.45     | 0.81     |
| -0.36   | 0.56    | 0.03      | 1.05      | 0.1687   | 0.8475   | 0.51    | 0       | -0.49    | 0.23     |
| -0.19   | 1.6     | 0.33      | 0.34      | -0.00125 | 1.558    | -0.91   | -0.31   | 0.87     | 0.3      |
| -0.23   | 0.13    | -0.38     | 0.7       | 1.209    | 1.298    | 0.22    | -0.41   | 0.72     | 5.37E-10 |
| -0.2    | 0.17    | 0         | 0.59      | 1.249    | 1.468    | -0.02   | -0.76   | 0.89     | -0.29    |
| -0.4488 | 0.2412  | -0.8188   | 0.2312    | 0.84     | 1.129    | 0.7712  | -0.1087 | 0.7013   | 0.7312   |
| 0.7925  | 0.0325  | -0.2975   | 0.7425    | 0.00125  | 0.87     | 0.0425  | -0.4075 | 1.113    | -0.1875  |
| 1.27    | 0.24    | -0.15     | 1.15      | 0.2488   | 1.478    | -0.07   | -0.61   | 1.37     | 5.37E-10 |
| 0.67    | 0       | -0.02     | 1.17      | 1.069    | 2.398    | 0.3     | 0.02    | 1        | -0.09    |
| 0.49    | 0.39    | -0.27     | 2.63      | 1.079    | 1.628    | -0.25   | 0       | 0.91     | -0.91    |
| 0.11    | 1.01    | -0.49     | 0.65      | 0.3088   | 0.8675   | 0       | -0.73   | 0.48     | 0.04     |
| 0.09    | 0.13    |           | 1.63      | 0.8087   | 0.9875   | 0.46    | -0.09   | 0.96     | 1.02     |
| 0.4112  | 0.5512  | -0.2688   | 1.081     | 1.79     | 1.059    | 0.7812  | -0.4987 | 1.411    | 1.911    |
| 0.45    | 0.73    | -0.14     | 0.48      | 0.2588   | 0.5275   | 0.41    | 0.2     | 0.69     | -0.36    |
| 0.59    | 1.08    | -0.25     | 0         | 0.1688   | 1.628    | 1.44    | 2.02    | 1.04     | -0.06    |
| 0.5212  | -0.3588 | -0.7088   | 0.6912    | 1.04     | 1.619    | 0.4812  | -0.1687 | 0.2613   | 0.1412   |
| 0.58    | -0.15   | -1.01     | 1.35      | 2.079    | 1.378    | 0.59    | -0.24   | 0.62     | 0.72     |
| 0.4981  | -0.1719 | -1.112    | 1.298     | 2.237    | 1.516    | 0.6381  | -0.3219 | 0.5481   | 0.5581   |
| -0.285  | 0.775   | 0.135     | 0.295     | 0.6338   | 0.2525   | 2.725   | -0.135  | 1.565    | 0.565    |
| 0       | 0.07    | -1.18     | 1.26      | 0.2488   | 0.3975   | 0.59    | -0.15   | 0.64     | 0.7      |
| 0.7906  | 0.06062 | -0.009375 | -0.4194   | 0.1194   | 1.678    | 0.06063 | 0.1206  | 0.4006   |          |
| -0.6687 | 0.04125 | -0.7688   | 1.401     | 0.42     | 1.259    | 0.6113  |         | 0.6213   | 0.7113   |
| 0.2212  | -0.1788 | -1.709    | 0.8612    | 1.83     | 1.379    | 0.5913  | 0.1913  | 2.481    | 1.431    |
| 0.13    | -0.03   | -0.79     | 0.94      | 1.459    | 1.188    | 0.53    | -0.09   | 0.93     | 5.37E-10 |
| 0.15    | 0       |           | 1.65      | -0.6912  | 1.288    | 2.09    | 0.89    | 1.53     | 1.83     |
| -0.2075 | 0.0125  | -0.8175   | 1.222     | 0.00125  | 0.71     | 1.022   | 0.3625  | 1.213    | 0.7525   |
| 0.04    | 0.64    | 0.31      | 1.02      | 0.4088   | 0.8575   | 0       | -0.38   | 0.6      | 0.35     |



Table 2

| SW872   | BT-549    | HS578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474    | MCF7-NCI | T47D     |
|---------|-----------|----------|-----------|----------|----------|----------|-----------|----------|----------|
| ARRY8X  | ARRY10X   | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X   | ARRY15X  | ARRY14X  |
| 1.67    | -0.33     | -0.54    | 2.12      | 1.849    | 2.328    | 0.11     | -0.19     | 1.23     | 1.44     |
| 1.61    | 0         | -0.37    | 2.01      | 1.719    | 1.218    | 0.27     | -0.1      | 1.24     | 0.94     |
| 0.65    | 0         | 0.27     | 1.37      | 1.249    | 2.788    | -0.75    | 0.57      | 1.53     | 0.52     |
| 0.38    | -0.37     | -0.23    | 1.88      | 1.219    | 1.118    | 0        | -0.14     | 0.5      | -1.74    |
| 0.6156  | 0.6556    | -0.7844  | 0.4156    | 0.4144   | -0.4469  | -0.2544  | -0.1044   | 0.4156   |          |
| 0.25    | 0.03      | -0.73    | 0.73      | 1.529    | 1.558    | -0.22    | -0.07     | 0.32     | -0.55    |
| 0.95    | -0.94     | 0.29     | 1.9       | 2.279    | 2.248    | -0.05    | -0.82     | 1.08     | 0.23     |
| 0.6712  | 0.4112    | -0.3088  | 0.2912    | 0.86     | 1.609    | -0.3288  | 0.3813    | 1.341    | -0.09875 |
| -0.3844 | 0.1156    | -0.5544  | 1.086     | 0.8544   | 1.203    | 0.2356   | -0.004375 | 0.3156   | 0.5556   |
| 0.8413  | 0.1512    | -0.8888  | 0.9012    | 0.29     | 1.199    | -0.9687  | -0.3287   | 0.6313   | 0.2613   |
| 1.521   | 0.3312    | -0.9088  | 0.7812    | 0.1      | 1.489    | -0.5887  | -0.3687   | 1.021    | 0.1513   |
| 0.83    | -6.03E-09 | -0.33    | 1.65      | 0.9288   | 1.188    | 0.76     | 0.44      | 1.08     | 5.37E-10 |
| 0.5612  | 0.3512    | -0.8488  | 0.9612    | 1.26     | 0.6188   | 0.8012   | -0.3687   | 0.5913   | -0.02875 |
| -0.05   | 0.52      | -0.35    | 0         | 0.9588   | -1.242   | 1.55     | 0.29      | 0.83     | 0.55     |
| -0.67   | 0.34      | -0.17    | 1.23      | -0.05125 | 0.9375   | 0.18     | -0.82     | 0.4      | 5.37E-10 |
| 0.1281  | 0.2481    | 1.098    | 1.758     | 1.657    | 2.286    | -0.01188 | -0.9719   | -0.3019  | -0.5019  |
| -0.32   | -0.02     | 0.17     | 1.21      | 1.359    | 2.088    | 0.24     | 0.09      | 1.48     |          |
| -0.1894 | 0.9406    | -0.01938 | 2.791     | 1.839    | 2.398    | 0.7206   | -0.2294   | 0.7706   | -0.3094  |
| 0.8     | 0.76      | -0.03    | 1.37      | 1.689    | 1.938    | 0.35     | -0.09     | 1.47     | -0.04    |
| -0.52   | 0.04      | 0        | 1.9       | 0.9388   | 0.2475   | 1.83     | -0.18     | -0.02    | -0.2     |
| 0.27    | 0         | -0.24    | 0.23      | 1.259    | 1.268    | 0.79     | 0.03      | 0.25     | 0.02     |
| -0.3538 | 0.1262    | -0.1938  | 1.626     | 1.215    | 0.7138   | 1.146    | 0.5063    | 1.656    | -0.3738  |
| -0.025  | 0.035     | -1.205   | 1.455     | 1.034    | 0.4925   | 1.075    | 0.025     | 1.575    | 0.235    |
| 1.28    | 0.95      | 0.67     | 2.72      | 0.8687   | 0.8075   | -1.6     | 0.55      | 0        | 0.48     |
| 1.136   | -0.3344   | 1.786    | 3.446     | 2.414    | 1.403    | -0.3144  |           | 1.136    |          |
| -0.08   | 0.85      | 0.78     | 1.73      | 1.439    | 1.758    | -1.15    | -1.68     | 1.41     | 0.64     |
| 1.302   | -0.2675   | 0.5225   | 0.7225    | 1.011    | 0        | 0.8125   | -0.9475   | 0.8225   | -0.9475  |
| 0.525   | 0.195     | -0.325   | 0.545     | 0.5138   | -0.4875  | 0.675    | -0.195    | 0.465    | -1.165   |
| 0.2     | -0.15     | -1.08    | 1.32      | 0.6688   | 1.408    | 0        | -1.38     | 1.05     | 0.5      |
| 0.98    | 0.12      | 0.68     | -0.27     | 0.6288   | 1.588    | 0.19     | 0.14      | -0.34    | -1.15    |
| -0.99   | 0.55      | 0.06     | 0.47      | -0.07125 | -0.0325  | 2.13     | 0.67      | 1.47     | 2.38     |
| -0.2875 | -0.5275   | -0.3775  | 0.1925    | 0.00125  | 2.03     | 0.1425   | -0.3575   | 0.3825   | 0.5325   |
| -0.41   | 0.16      | 0.04     | 0.75      | -0.9412  | 1.018    | 0.21     | 0.39      | 0.37     | -0.25    |
| -0.09   | 0         | 0.67     | 1.47E-09  | 0.2688   | 1.008    | 0.57     | 0.38      | -0.31    | -0.34    |
| 0.6112  | 1.341     |          | -0.07875  | 1.75     | 0.3688   | 0.4212   | 0.5813    | 0.2513   | -0.7788  |
| -1.55   | -0.47     | -1.78    | -0.11     | 0.2087   | 3.438    | 1.02     | -0.23     | -0.05    |          |
| -0.0175 | -0.4175   |          | 0.0825    | 0.00125  | 0.97     | -1.118   | -0.4975   | -0.0175  | -0.2175  |

Table 2

| SW872    | BT-549   | HS578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474   | MCF7-NCI | T47D    |
|----------|----------|----------|-----------|----------|----------|----------|----------|----------|---------|
| ARRY8X   | ARRY10X  | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X  | ARRY15X  | ARRY14X |
| 1.298    | -2.582   | -1.162   | -0.6419   | -1.423   | 1.976    | 0.6581   | -2.502   | -0.7419  | -1.122  |
| 0.16     | 0        | -0.15    | -0.17     | -0.3712  | 0.1875   | -1.26    | -1.13    | -0.62    | 0.28    |
| -0.2859  | -0.2159  | 0.4241   | 0.3141    | 0.1928   | -0.5384  | -0.4759  | -0.7859  |          | -0.7959 |
| 0.0225   | 0.2425   | 0.5825   | 0.4225    | -1.409   | 0        | -2.998   | -1.708   | -0.9275  | -1.138  |
| 1        | -0.47    | -0.41    | 0.41      | -2.561   | -0.7925  | -0.98    | -0.2     | -0.75    | 0.79    |
| 0.9      | 0        | -0.01    | 1.44      | -0.08125 | -0.0025  | -0.2     | -0.88    | 0.43     | -0.88   |
| 0.6019   | -0.1581  | -0.1981  | 0.9019    |          | -0.05062 | 0.1119   | -1.358   | -0.8481  | -0.2981 |
| 1.02     | -3.08    | 0.42     | -0.63     | 1.289    | 3.208    | -1       | -0.34    | -0.19    | -1.19   |
| 2.818    | 1.988    | 0.9581   | -2.752    | -2.693   |          |          |          |          |         |
| 0.97     | 2.98     | 1        | -2.97     | 1.259    | 0.9775   | 1.3      | -0.7     | 0        | 0.09    |
| 2.85     | 2.62     | -0.02    | -1.24     | 1.499    | 2.108    | -1.06    | 0.02     | -0.29    | 0.91    |
| 2.12     | 1.8      | 1.29     | -2.01     | -0.1512  | 3.108    | -0.76    | -1.52    | -0.84    | -0.25   |
| 1.652    | 1.432    | 0.9625   | -2.368    | 0.00125  | 2.67     | -1.028   | -1.657   | -1.047   | -0.3075 |
| 0.2356   | -2.114   | 0.6656   | 2.986     | -1.296   | -1.207   | 2.026    | 1.126    | 1.346    | -1.104  |
| -0.1044  | -0.6044  | 0.9056   | 2.166     | -2.476   |          | 1.046    | 1.296    | 1.176    | -1.374  |
| -0.5494  | 0.2506   |          | 1.331     | 0.1194   |          | 0.6506   | -0.3394  | -0.7494  | 0.02062 |
| -0.1994  | -0.6994  | -0.5694  | 0.7706    | -0.8706  |          | 1.221    | 0.9906   | 0.7106   |         |
| -0.9319  | 0.6781   | -0.08188 | 0.4881    |          | 0.3456   | 0.7381   | -1.222   | 0.2881   | 0.5881  |
| 0.7991   | -0.07094 | -0.9509  | 0.1891    | -0.6922  | 1.097    | 0.3291   | -0.2109  | 0.8191   | 0.8791  |
| -0.86    | -0.1     | -0.49    | 0.92      | 1.029    | 0.6175   | 0.04     | 0.07     | 0        | 0.44    |
| 0.3512   | -0.3688  | -0.2988  | 3.341     | 1.21     | 1.529    | -1.269   | -0.4087  | -1.389   | -1.109  |
| 0        | -0.08    | 0.19     | 0.92      | 0.9588   | 1.518    | -0.5     | 0.43     | -0.51    | 0.11    |
|          | 2.68     | 0.92     | -0.51     | 1.849    | -0.7525  | -1.82    |          | 1.01     |         |
| 0.3041   | 0.1841   | -0.5659  | 0.9241    | 1.193    | 1.072    | -0.06594 | -0.09594 | 0.2541   | 0.6941  |
| 5.70E-09 | 0.07     | 0        | 0.12      |          | 0.3175   |          | 0.57     | 0.17     | -0.2    |
| 0        | 0.39     | 0.22     | 0.54      | -0.1612  | 0.5375   | -1.48    | 0.64     | 0.59     | 0.56    |
| 0.6112   | 0.04125  | 0.6812   | 0.2812    | -0.18    | 0.8888   | 0.1012   | -0.3287  | -0.1087  | 0.2712  |
| 0        | -0.15    | -1.14    | -0.25     | -0.2512  | 0.0075   | -0.71    | -1.47    | -0.48    | 0.1     |
| 0.2612   | -0.5388  | 1.101    | 0.8812    | -0.91    | 1.189    | -0.1488  | -0.7787  | -0.6587  | -0.5788 |
| 0.3581   | -0.7919  |          | 0.6181    | 1.077    | 0.7856   | -1.162   | 0.02813  | -0.2919  |         |
| -0.87    | 0        | -0.17    |           |          | 4.558    |          |          | 0.13     |         |
| 0.57     | 0.31     | -0.15    | 0.16      |          | 0.3675   | -0.62    | -1.11    | -2.43    | 0.41    |
| 1.228    | -2.102   | 0.6081   | 0.3181    | 1.387    | -2.094   | 0.7781   | -2.022   | -0.3819  | 2.988   |
| 2.39     | 0.58     | -0.78    | 0.61      | -0.8512  | -0.6125  | -0.29    |          |          | -0.01   |
| 0.75     | -0.33    | -0.2     | 0.12      |          |          | 0        | -0.78    | -0.03    | -0.06   |
| 0.4      | 0.13     | 1.4      | 0         | -0.8812  |          | 0.7      | -0.35    | -0.23    | 0.88    |
|          |          |          | -0.4219   |          |          | 0.5381   |          | -0.08187 |         |

Table 2

| SW872    | BT-549   | HS578T    | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474  | MCF7-NCI | T47D      |
|----------|----------|-----------|-----------|----------|----------|----------|---------|----------|-----------|
| ARRY8X   | ARRY10X  | ARRY9X    | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X | ARRY15X  | ARRY14X   |
| -0.045   | -0.425   | -0.885    | 0.045     | -1.486   | -0.7575  | 0.915    | -0.165  | -0.155   | 0.385     |
| 0.44     | -0.78    | 0.51      | -0.68     | -0.02125 | -1.482   | -0.87    | 0.43    | 0.31     | 5.37E-10  |
| 0.21     | 0.18     |           | -0.03     | 0.4987   | -0.4125  | -0.47    | -0.55   | 0        | -0.46     |
| -1.045   | 0.805    |           | 0.325     |          | -0.1575  |          | -1.965  | 0.055    |           |
| 2.5      | -0.25    | 0.46      | 0         | 0.3988   |          | -1.92    | 1.35    | 2.32     | 1.7       |
| 2.681    |          |           | 0.9312    | -0.57    | -0.7512  |          | 0.9613  | 1.641    | 0.6112    |
| 2.2      | 0.21     | -4.66E-10 | 0         | 0.1988   | -0.5625  | -1.54    | 1       | 1.47     | 0.62      |
| 1.86     | 0.28     | 0.85      | -0.01     |          | 0.7675   | -0.79    | -0.05   | 1.23     | 0.03      |
| 3.522    | -0.05813 | 0.5019    | 1.722     | 0.9206   | 0.03938  | -0.2981  | 0.9319  |          | 0.9419    |
| 3.08     | -0.08    | 2.24      | -0.32     | 0.7688   | 0.4575   | -1.1     | 0.8     | -0.13    | -0.22     |
| 4.111    | -0.03938 | 0.7706    | -1.419    | 1.259    |          |          |         |          |           |
| 3.48     | 0.38     | 1.86      | -0.51     | 1.669    |          | 5.70E-09 | 0.21    | -0.71    |           |
| -0.3831  | 0.1869   | 0.7469    | -0.4531   | 0.2556   | 0.03438  | -0.6231  | 0.3169  | 0.3869   | -0.8131   |
| 0.7206   | 0.3206   | 0.3306    | -0.4594   | -0.7306  | 0.1481   | 0.6206   | -0.1694 | -0.6394  | -0.6894   |
| 0        | 1.47     | -0.12     | 0.51      | 0.3488   | 1.138    |          |         | 0.53     | -1.40E-10 |
| 0.28     | 0        | -0.05     | 1         | 0.3788   | 0.6175   | 0.26     | -0.04   | 0.44     | 0.16      |
| -0.405   | 0.425    | 0.005     | -0.005    | 0.1438   |          |          |         | -0.055   | -0.955    |
| 0.4291   | 0.7891   | 0.6191    | 0.4691    | -0.3722  | -0.6734  | -0.4109  | 1.649   |          | -0.09094  |
| -1       | 0        | 0.49      |           | -0.6612  | 3.248    |          |         | 1.75E-08 |           |
| -0.2     | 0.1      | -1.4      | 3.19      | 2.579    | 3.318    | 1.86     | -0.1    | 3.67     | 2.08      |
| -0.105   | 0.105    | 1.215     | 3.505     | -0.1462  | 2.993    |          | -0.615  | 2.025    | 0.895     |
| -0.035   | 0.045    | 1.345     | 0.655     |          | 1.603    | -0.905   | -1.575  | -1.405   | -0.985    |
| 1.158    | 1.078    | 0.1981    | -0.8219   | 2.757    | 1.766    | 1.158    | -0.9919 | -1.632   | -0.2019   |
| 2.09     | 2.12     | 1.6       | -1.37     |          | 2.518    | 1.85     | -0.32   | -0.76    |           |
| 1.485    | 0.185    | 1.535     | 1.055     | 1.554    | 2.173    |          | -0.715  | -2.505   | -1.535    |
| 1.5      | -0.47    |           | 0.96      | 3.319    | 2.248    | 0.63     | -1.11   | -2.34    |           |
| 1.14     | 0.11     | 0         | 0.44      | 1.729    | 1.688    | 0.58     | -0.69   | -0.68    | -0.82     |
| 1.57     | -0.08    | 1.83      | 1.04      | 2.869    | 3.368    | -1.32    | -1      | -1.05    | 5.37E-10  |
| 1.091    | 0.6812   | 0.2612    | -1.399    | 0.56     | 2.599    | -0.1188  | 0.1113  | -0.6187  | 0.5112    |
| 0.8212   | 0.6812   | 0.5912    | -1.779    | 0.57     | 2.659    | -0.6288  | 0.06125 | -0.7787  | 0.3312    |
| 0        | -0.17    | 0.51      | -2.69     | 1.949    | 4.268    | 0.76     | -0.2    | 0.1      | 0.17      |
| -0.06938 | 0.4506   |           | 0.09062   | 2.049    | 3.998    | 0.1106   | -1.079  | -0.6894  | 0.07062   |
| -0.85    | 2.44     | -0.56     | 4.62      | 3.139    | 3.638    | -0.04    |         | -1.24    | -1.59     |
| -0.275   | 0.755    |           | 1.485     | 2.324    | 3.973    | -0.975   | 0.515   | 0.025    |           |
| 0.5081   | 0.2281   | 0.7981    | 4.458     | 1.527    | 3.536    | -0.9519  | 0.5881  | -1.462   | 0.8281    |
| 1.42     | -0.83    | 1.27      | 0         | 2.719    | 3.948    | 0.21     | -0.6    | -0.29    | -0.08     |
| 0.3891   | 1.999    | -0.4309   | 0.5891    | -0.1922  |          | 0.1991   | -0.1609 | -0.3609  | 0.5091    |

Table 2

| SW872    | BT-549    | HS578T     | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|----------|-----------|------------|-----------|----------|----------|---------|---------|----------|----------|
| ARRY8X   | ARRY10X   | ARRY9X     | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| -0.17    | 0.68      |            | 0.88      | 0.3788   | 4.978    | -1.02   | -0.61   | 0.29     |          |
| 0.89     | 0.82      | 0.11       | -0.42     | -0.4812  | 3.008    | -1.09   | -0.89   | 0.11     | 5.37E-10 |
| 3.694    | 0.2341    | 1.744      | 3.514     | -0.5172  | 6.072    | -2.056  | 0.1141  | 0.2341   |          |
| 0.82     | 0.22      | -0.58      | -1.26     | -0.9813  | 5.258    |         | 0       | -0.51    | 0.83     |
| 4.42     | 2.08      | 0.93       | -0.43     |          | 8.358    | -1.29   |         | 0        |          |
| 3.09     | 1.05      | 0.9        | -0.78     | 1.699    | 6.798    | 0       | -0.05   | 0.56     | -1.54    |
| -0.55    | 0.17      | 2.12       | -0.26     |          | 4.308    |         | 0.03    | 0.15     | -1.37    |
| 0.98     | 0.58      | 1.2        | -1.04     | -1.461   | 4.058    |         | -0.65   | 0        |          |
| 0.05062  | -0.1994   |            | 0.6806    |          | 2.838    |         | 0.2606  | -0.5894  |          |
| 0.4063   | -0.03375  | -0.6738    | -0.03375  | 0.035    | 5.054    | 0.6063  | -0.5737 | 0.1363   | -0.07375 |
| -0.1744  | 0.2456    | -0.1044    | -0.1244   | 4.063    | 4.063    | -1.294  | 0.3556  | -0.1944  | -1.884   |
| 0.265    | 0.585     |            | 0.065     | -0.9662  | 4.553    |         |         | -0.265   | -0.065   |
| 0.84     | 0.92      | 1.42       | -0.06     | -0.3813  | 5.738    | -0.9    | 0       | -0.05    |          |
| 0        | 0.06      | 0.14       | 0.08      |          | 1.638    | 0.08    | -0.5    | -0.15    |          |
| -0.2894  | -0.07938  | 1.311      | 3.581     | -2.151   | 3.558    | -1.369  | 0.1006  |          | -0.7694  |
| 0        | -0.35     | 1.22       | 1.22      | -0.9012  | 7.948    | -0.05   | 0.19    | 0.02     | -1.18    |
| 0.635    | 0.295     | 1.535      | -0.955    |          | 7.393    | -0.335  | 0.095   | -0.415   | 0.905    |
| 0.625    | 1.335     | 1.775      | -0.415    | 2.044    | 7.133    | -1.055  | 0.615   | 0.015    | -0.015   |
| -0.33    | 0.02      | -0.43      |           | 0.1888   | 5.558    | 0.72    | -0.51   | 0.3      | 0.84     |
| 0.12     | -0.07     | 0.11       | 0.4       | -0.1912  | 5.318    | 0.16    | 0.17    | -0.25    | 5.37E-10 |
| 0.2806   | -0.009375 | 0.6006     | 0.9206    | -0.3006  | 9.138    | -0.6194 | 0.3306  | 0.6706   | 1.421    |
| -0.04937 | -0.07938  | 0.2706     | 1.391     | 0.1094   | 8.898    | -1.529  | -0.2594 | 0.1206   | 1.511    |
| 0.24     | -0.01     | -0.42      | 0         | -0.00125 | 6.638    | 0.05    | -0.17   | 0.03     | -0.18    |
| 0.6981   | -0.1519   | 1.248      | -1.022    | 0.7669   | 7.246    | 0.07812 | 0.1281  | -0.4819  | 1.808    |
| 0.45     | 0.05      | 1.08       | 2.74      | 0.4988   | 8.498    | -2.62   | 0.79    | 0.45     | 5.37E-10 |
| 0.37     | 0.2       | -0.02      | -0.37     | 2.289    | 5.548    | -1.25   | 0.18    | -0.02    | -0.45    |
| 1.96     | -0.54     | 0.19       | 3.02      | 0.2487   | 2.578    | -1.41   | -0.41   | 0        | -0.32    |
| 0.5825   | -0.9375   | 0.5125     | 4.442     | 0.00125  | 4.77     |         |         | -1.057   |          |
| 0.8491   | -1.241    | 0.2791     | 4.819     | 2.548    | 3.947    |         | 2.669   | 0.07906  | -0.5709  |
| 0.27     | -0.44     | -0.69      | 4.26      | 4.009    | 1.538    | -0.49   | 0       | 0.95     | 2.31     |
| 0        | -0.45     | 1.07       | 3.75      | 6.229    | 3.258    | -0.2    | 1       | 0.41     | 1.09     |
| -0.6709  | -0.6009   | -0.0009375 | 1.409     | 0.9378   | 3.137    | -0.7109 |         | 0.009063 | -1.101   |
| 0.08     | 0.03      | 1.88       | 0.11      | 2.409    | 2.538    | -0.54   | -0.03   | -0.13    | 0.2      |
|          | -1.029    |            | 2.301     | 5.56     | 3.229    | -1.419  | 0.7513  | -0.9587  |          |
| 0.3041   | -0.03594  |            | 4.004     | 2.573    | 5.152    | 0.6841  | 1.554   | 1.784    | 0.6541   |
| -0.56    | -0.87     | -1         | 4.18      | 1.279    | 3.738    | 0.26    | 0.47    | 0.98     | -0.22    |
| 0        | -1.03     |            | 2.08      | 3.499    | 6.038    |         | -1.36   | 1.54     | -0.54    |

Table 2

| SW872    | BT-549  | HS578T    | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474  | MCF7-NCI | T47D     |
|----------|---------|-----------|-----------|----------|----------|----------|---------|----------|----------|
| ARRY8X   | ARRY10X | ARRY9X    | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X | ARRY15X  | ARRY14X  |
| -2.87    |         | 0         | 3.37      | 3.509    | 4.658    | 0.2      | -1.6    | -0.64    |          |
| -1.75    | -2.2    | 0.9       | 5.36      | 4.859    | 6.348    | 2.3      | 0       | 1        | -0.81    |
| -1.42    | -1.79   | 0.7797    | 3.19      |          | 3.847    | 0.5697   | 0.3197  | 0.1797   |          |
| -0.1188  | 0.8712  | 1.171     | 5.211     | 3.5      |          |          | -5.069  | -0.3087  |          |
| 0.08125  | 0.4112  | -0.4088   | 0.1512    | 3.91     | 5.659    | -0.4088  |         | -0.6787  |          |
| -0.44    | 0.32    | -0.03     | 0.5       | 4.969    | 3.898    | -0.96    | -0.51   | -0.12    | -1.54    |
| 0.3491   |         | 1.369     | 3.359     | 3.798    | 3.497    | -1.021   | -0.4509 | -0.2809  | -0.6009  |
| 2.081    | -0.4594 | 2.011     | 2.971     | 1.699    | 4.328    | -1.019   | -0.2494 | -0.06937 | -1.509   |
| 1.129    | 0.05906 | 0.6991    | 1.979     | 1.828    | 5.367    | -2.181   | -0.2309 | -1.011   |          |
| 1.707    | -1.023  | 3.227     | 3.867     | 0.005625 | 8.014    | -2.893   | -0.3631 | -1.243   |          |
| 0        | 0.39    | 2.19      | 4.76      | 4.299    | 4.298    | -0.31    | -1.21   | -1.61    | 0.14     |
| -0.145   | -0.665  | 0.035     | 4.345     | 2.754    | 3.823    | -1.115   | -1.535  | -0.575   | 0.455    |
| 0.2756   | -0.5844 |           | 5.486     | 4.134    | 6.733    | -2.044   | -1.094  | -0.9744  | -0.7844  |
| 1.57     | 0.23    | 2.74      | 3.3       | 4.129    | 5.378    | -0.23    | -0.38   | -0.26    | -0.99    |
| 2.661    | -1.649  | 1.351     | 2.681     | 3.13     | 4.859    | -0.6688  | -0.4987 | -0.1287  | -0.2788  |
| 0.2491   | 0.2191  | 1.849     |           |          | 4.107    | -0.07094 | 0.3891  | -0.5509  |          |
| 1.091    | -0.4494 | 0.7906    | 3.941     |          | 4.248    | -0.6394  | -0.9294 | -0.3094  | 0.2106   |
| -0.1888  | -1.339  | 0.4012    | 5.301     | 5.05     | 5.489    |          | -0.1387 | 1.131    | -0.9488  |
| 0        | -0.08   | 1.87      | 3.78      | 3.119    | 4.468    | -1.8     | -0.15   | -0.56    | 0.09     |
| -0.9419  | 0.4181  | 1.818     | 2.948     | 5.027    | 3.596    | -0.6019  | 1.318   | -0.5319  | -1.262   |
| 1.04     | -0.93   | -1.38     | 1.77      | 4.459    | 5.318    | 0.14     | -0.85   | -0.97    |          |
| 0.23     | 0.15    |           | 3.1       | 4.019    | 5.428    | -0.15    | -0.2    | -0.7     | -1.63    |
| -0.145   | 0.145   | 0.255     | 1.015     |          | 7.853    | -0.455   | 0.645   | -0.385   | 1.265    |
| -0.5     | 0       | 0.75      | 0.01      | 5.599    | 6.928    |          | 0.08    | 0.08     |          |
| -0.33    | 0.02    | 1.57      | 0.89      | 3.989    | 7.618    | -0.23    | 0.2     | -0.02    | -0.19    |
| 2.85E-09 | -0.65   | -2.85E-09 | 3.19      |          | 3.898    | -0.77    |         | -1.41    |          |
| 0.08563  | -1.164  | -0.5044   | 4.716     | 3.834    | 5.283    | -0.03437 | -0.6744 | 0.9956   | 0.2256   |
| -0.545   | -0.015  | 0.945     | 3.595     |          | 5.943    | -0.445   | -0.595  | -0.375   | 0.015    |
| 0.4      | -1.07   | -1.36     | 5.35      | 5.459    | 6.528    | 2.68     | 0.01    | 0.41     | 5.37E-10 |
| 1.558    | -0.7519 | -0.3619   | 5.458     | 5.847    | 5.826    |          | -0.2119 | -0.09187 |          |
| 0.165    | -0.245  | 3.075     | 5.255     | 5.674    | 5.553    |          |         | -0.285   |          |
| -0.055   | 0.005   | 1.115     | 5.465     | 2.804    | 5.673    | -0.335   | -0.005  | -0.065   | 0.005    |
| -0.11    | -0.72   | 0.38      | 5.05      | 4.749    | 6.698    |          | -0.06   | 0.06     |          |
| 1.458    | 0.7081  | 1.028     | 4.198     | 4.547    | 4.896    | 0.2281   | -0.2119 | -0.6319  | -0.9519  |
| 0.12     | -0.66   | 1.61      | 3.28      | 3.549    | 5.668    | -1.36    | 0.12    | -0.88    | 1.03     |
| 0.945    | -0.245  | 1.625     | 0.265     | 3.804    | 5.453    | 0.245    | 0.365   | -0.365   | 0.455    |
| -0.05    | 0.3     | -0.06     | 0.55      | 4.769    | 6.008    | 0.05     | 0.09    | -0.79    |          |

Table 2

| SW872    | BT-549    | HS578T | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|----------|-----------|--------|-----------|---------|----------|---------|---------|----------|----------|
| ARRY8X   | ARRY10X   | ARRY9X | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| -1.13    | 0         |        | 3.3       | 2.879   | 3.978    | -0.21   |         | -1.77    | 1.69     |
| 0.32     | -6.03E-09 | -0.12  | 3.82      | 4.199   | 5.198    | 1.38    | 0.23    | -0.09    | 5.37E-10 |
| 0        | 0.01      | -0.37  | 2.95      | 2.479   | 3.508    | 0.35    | -1.12   | 0.32     | -0.08    |
| 0.07     | 0.14      | -0.65  | 3.44      | 2.109   | 2.328    |         | 0.59    | 0        | -0.79    |
| 1.336    | 0.3056    | 2.266  | 6.486     | 0.4144  | 5.453    | -0.5644 |         | -0.2944  | -0.1544  |
| 0.88     | -0.78     | 1.09   | 2.52      | 3.849   | 2.798    | 0.15    | 1.19    | -0.52    | 5.37E-10 |
| 0.9212   | -1.349    | 0.6112 | 1.361     |         | 4.499    | -1.119  | -0.2687 | 1.221    | -1.079   |
|          | -0.065    | 0.295  | 2.945     | 1.754   |          | -0.945  |         | 0.065    |          |
| 0.605    | 0.805     | 0.625  | 4.805     | -1.066  | 3.013    | 0.195   | -1.195  | -0.195   | 0.325    |
| 0.09     | 0.19      | -0.01  | 3.39      | 0.6488  | 2.968    | 1.38    | -0.14   | -0.1     | 5.37E-10 |
| 1.7      | 0.63      | 0.33   | 3.15      | 1.279   | 2.978    | -0.78   | -0.31   | 0.6      | 0.32     |
| 1.78     | -0.32     | 0.51   | -0.97     | 4.649   | 5.858    | -0.92   | -0.82   | 0.88     | 1.92     |
| 0.75     | 0.21      | 0.62   | 2.7       | 2.499   | 4.448    | -1.73   | 0       | 0.52     | -1.06    |
| 1.84     | -1.71     | 0.84   | 2.61      | 2.009   | 2.298    | -0.58   | -0.91   | -1.51    |          |
| -1.08    | 0.4597    |        | 0.3697    | 1.788   | 2.757    | -0.6003 |         | 0.2897   | -2.52    |
| -0.2994  | 0.7906    | 0.4906 | -0.3294   |         |          | -1.169  | 0.1506  | 0.5706   | -2.259   |
| -1.152   | 0.3481    | 0.9881 | -0.1119   | 0.9469  | 4.636    | -2.232  | 0.2281  | 0.3081   | -1.482   |
| -2.309   | -0.2288   | -1.079 | 0.6512    | 0.96    |          | -0.4487 | -0.8487 | 0.3413   | -1.639   |
| -0.3788  | -1.059    | 0.6812 |           |         | 0.9288   |         | 0.3113  | -0.1187  |          |
| -0.2159  | 0.7941    | 0.1441 | 2.044     | 3.633   | 0.6316   |         | -0.4159 | -0.7159  | 0.1441   |
| -1.56    | -0.46     | 1      | -1.09     | 4.539   | -2.292   |         | 0.29    | 0        |          |
| 0.58     | -0.45     | 0.48   | 0.28      | 7.659   | -1.082   | -2.64   | 0.77    | 0.6      |          |
| 0.1769   | -0.8531   | 1.157  | 0.1969    | 7.596   | -0.1656  | -2.723  | 0.3969  | 0.3469   | -0.3631  |
| -0.145   | -0.585    | 0.875  | 0.195     | 6.224   | 2.933    | -0.305  | 0.495   | 0.145    |          |
| 0.18     | 0.43      | 0.36   |           | 5.159   | 0.1575   | 0.33    | -0.82   | -0.8     | -0.95    |
| 0.675    | -0.015    | 1.115  | 0.015     | 7.274   | -0.1275  |         | 0.845   | 0.555    | -0.065   |
| 0.675    |           | 2.035  | -0.105    | 6.434   | 3.183    | -0.545  | 0.105   | 0.105    | 0.195    |
| 0.69     | 0.07      | 2.26   | -0.31     | 5.889   | -1.462   |         | 0.99    | -0.07    | -0.56    |
| -0.215   | 0.135     | 0.525  | 0.305     | 4.094   | -0.4075  | -0.665  | 0.235   | -0.135   | 0.985    |
| -0.45    | -1.75     | 0      | 1.26      | 1.329   | 3.018    | 0.64    | -0.67   | -0.88    | 1.82     |
| 0.3113   | -0.5088   | 3.291  | 0.1712    |         |          | 0.3413  | 0.08125 | -1.009   |          |
| -0.07875 | 0.2312    |        |           |         | 3.759    | -0.8988 | 1.221   |          |          |
| -0.4509  | -0.6209   |        | 0.009062  |         | 3.487    | 0.4291  | 0.6591  | 0.05906  | -3.771   |
| -0.15    | -0.76     | 0.11   | 0.72      | 0.07875 | 1.888    | 0       | -0.66   | 0.36     | -1.1     |
| 0.01406  | -0.8359   |        | -0.4259   | 0.5928  | 0.9916   | -1.036  | -1.376  | 2.354    | -1.046   |
| 0.01     | 0.18      | -0.67  | 0.91      | 2.689   | 1.788    | -0.01   | -0.24   | 0.32     | -0.08    |
| 0        | -0.64     | -0.23  | 0.16      | 0.9288  | 0.1775   | -0.02   | 2.05    | -0.69    | -0.9     |

Table 2

| SW872     | BT-549   | H578T     | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3  | BT-474  | MCF7-NCI | T47D     |
|-----------|----------|-----------|-----------|---------|----------|----------|---------|----------|----------|
| ARRY8X    | ARRY10X  | ARRY9X    | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X  | ARRY13X | ARRY15X  | ARRY14X  |
| 0.2012    | -0.7388  | -0.5788   | 0.00125   | 0.69    | 2.069    | -0.1788  | -0.3787 | 0.6813   | 0.9212   |
| -0.3788   | -0.8188  | 0.5212    | -0.2288   | -0.31   | 1.399    | -0.01875 | -0.9087 | 0.3013   | -0.9088  |
| -0.625    | 0.615    | -0.155    | -0.105    | 1.544   | 1.553    | -0.815   | 0.105   | 0.845    | 0.705    |
| -0.12     | -0.11    | 0.89      | 0.89      | 1.519   | 1.838    | 0.94     | 0.17    | 0.66     | 5.37E-10 |
| -0.4      | -0.15    | -0.24     | 0.85      | 1.339   | 1.868    | 0.71     | 0       | 0.16     | 0.18     |
| 0.41      | -0.12    | -0.54     | 0.78      | 1.159   | 1.558    | 0.52     | -0.75   | 0        | -0.35    |
| -0.38     | 0.42     | -0.01     | 0.79      | 0.3187  | 1.118    | 0.59     | -0.7    | 0        | -0.66    |
| -0.26     | 0.61     | 0         | 0.32      | -1.611  | 0.6075   | -0.26    | -1.83   | -0.62    | 0.14     |
| 0.54      | -0.78    | 0         | -0.5      | 1.358   | 1.358    | 0.84     | -0.07   | 0.7      | -1.96    |
| 0.5425    | 0.1425   | -0.5375   | -0.3975   | 0.00125 | 0.04     | -1.638   | -0.9075 | -0.3175  | -0.3575  |
| -0.1319   | -0.1919  | -0.3019   | -2.512    | -0.3931 | 0.1456   | -0.2119  | -0.8319 | -0.3919  | -1.562   |
| 0.91      | -0.17    | -0.81     | -0.36     | -1.081  | 0.3175   | -0.5     | 0.11    | 1.39E-17 | -0.52    |
| 0         | -0.49    | 0.12      | 0.07      | 0.0575  | 0.0575   |          | 0.02    | -1.01    | -1.21    |
| 0.2106    | 0.1406   | 0.1006    | -0.9694   | 0.3394  | -0.2219  | 1.031    | 0.4006  | 0.1306   | -0.4094  |
| 0.5225    | -0.2975  | -0.0475   | -1.088    | -2.019  | 0        | 0.2025   | -0.5875 | 0.1225   | 0.4425   |
| 0         | 0.65     |           | 0.57      | 0.6288  | 0.9375   | 0.2      |         | 0.25     | -0.15    |
| -1.49E-10 | -1.12    | -0.52     | 0.06      | 1.229   | 1.018    | -0.57    | 0.81    | 1.29     | 0.09     |
| 0.14      | -0.85    | -0.37     | -0.4      | 1.209   | 1.218    | -1.22    | -1.66   | -0.13    | -0.07    |
| 0         | -0.23    | -0.4      | -0.17     | 0.2888  | 0.5175   | -0.39    | -1      | -0.76    | 0.34     |
| 0.8706    | -0.04938 | -0.08938  | -0.1594   | 0.8594  | 1.608    | -0.1894  | -0.4594 | 0.9306   | 0.2406   |
| 0.3412    | -1.389   | -1.059    | -0.02875  | 1.12    | 2.379    | 0.3613   | 0.09125 | 1.241    | -0.3088  |
| 0         | 0.59     | 0.05      | 1.81      | 1.309   | 2.768    | -0.7     | -0.46   | 0.81     | -0.55    |
| -0.015    | 0.015    | -0.815    | 0.265     | 0.1638  | 0.6925   | 0.105    | -0.825  | 1.405    | 0.455    |
| -0.285    | -0.145   | -0.735    | 0.865     | 0.2638  | 1.723    | 1.325    | -0.745  | 0.965    | 0.875    |
| -0.01875  | -0.6088  | -0.5588   | 0.7212    | 0.25    | 1.679    | 0.9813   | -1.429  | 0.9513   | 0.5712   |
| 1.21      | -0.17    | -0.27     | 0.77      | 0.8488  | 0.3475   | 0.22     | -1      | -0.13    | 5.37E-10 |
| -0.12     |          | 0.51      | 0.86      | 0.8288  | 0.6175   | 0.69     | 0.93    | 0.6      | 0.24     |
| 8.33E-16  | 0.04     | -0.33     | 0.9       | 0.5988  | 0.8075   | 0.73     | -0.06   | -0.26    | 0.59     |
| 0.25      | 0.41     | 0.18      | 0.05      | -0.1412 | 0.7675   | 0.89     | -0.64   | -0.23    | 5.37E-10 |
| 0.81      | -0.08    | -0.19     | 0.71      | 1.449   | 1.398    | -0.23    | 0       | 0.1      | -0.02    |
| -0.09     | -0.25    | -0.72     | -0.12     | 1.259   | 0.9775   | 0.59     | 1.24    | 0        | -0.44    |
| 0.08062   | -0.8094  |           | 1.151     | 0.5694  | 1.728    | -0.03938 | -0.1694 | 0.3806   | -0.6094  |
| -0.01188  | -0.6219  | 0.08812   | 0.9381    | 0.8269  | 1.606    | 0.2581   | -0.5919 | 0.4281   | -0.5519  |
| -0.56     | 0.21     | -4.66E-10 | 0         | 0.3688  | 1.608    | 0.02     | 0.38    | 0.41     | -0.27    |
| -0.6      | 0.28     | -0.18     | -0.07     | 0.1088  | 1.138    | 0.67     | 0.57    | 0.11     | 0.66     |
| -0.4488   | 0.1012   | -0.4388   | 0.2312    | 0.51    | 2.309    | 1.091    | 0.1713  | 1.141    | 0.3712   |
| 0.4906    | -0.6294  | -0.07938  | 0.08062   | 1.169   | 1.308    | -0.4494  | 2.181   | 0.4606   |          |

Table 2

| SW872   | BT-549   | HS578T  | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474   | MCF7-NCI | T47D      |
|---------|----------|---------|-----------|----------|----------|---------|----------|----------|-----------|
| ARRY8X  | ARRY10X  | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X  | ARRY14X   |
| 0.025   | -0.475   | 0.765   | 0.275     | 1.354    | 1.603    | 1.195   | 0.595    | 0.165    | -0.025    |
| 1.83    | -0.38    | -0.58   | 0.19      | 0.7988   | 0.8175   | -0.73   | -0.75    | 0.48     | 5.37E-10  |
| -0.0875 | 0.1825   | -0.4175 | -0.3575   | 0.00125  | 0.37     | 0.9025  | 0.1425   | 0.1425   | 0.2525    |
| -1.055  | 0.455    | -0.095  | -0.365    | 0.9738   | 0.8225   | 0.565   | 1.025    | 0.895    | -0.115    |
| -0.64   | -0.22    | 0.67    | 0         | -0.5712  | -0.6425  | 0.05    | -1.07    | 1.07     | 0.48      |
| 0.06    | 0.09     | 0.08    | -0.86     | -0.07125 | 0.2375   | 0       | -0.37    | 0.64     | -0.25     |
| -0.89   | 0.74     | 0       | -0.17     | 1.699    | -1.482   | 1.18    | 0.28     | 0.81     | -0.16     |
| -0.3188 | 0.2112   | 0.4312  | -0.06875  | 1.55     | 0.5888   | -1.029  | -0.2887  | 0.8413   | -0.9888   |
| 0.27    | 0.24     | 0.85    | 1.05      | 2.509    | 0.6075   | 0.37    | 0        | 0.12     | -0.49     |
| -0.23   | 0.37     | 0.08    | 2.23      | 2.339    | 0.4875   | -0.1    | 0.25     | -0.3     | 0.36      |
| 0       | -0.5     | 0.09    | 2.57      | 2.719    | 0.4375   | -0.54   | 0.29     | 0.43     | 0.43      |
| -0.68   | -0.2     | -0.85   | 2.17      | 2.519    | 0.2275   | 0.02    | 0.01     | 0        | 0.04      |
| -0.1094 | -2.629   | 0.2806  |           |          |          | -2.789  | 0.5006   | 0.02063  |           |
| 0.7     | 0        | 0.17    | -0.04     | -0.1412  | 0.9975   | 0.5     | -1.33    | 1.03     | -0.49     |
| -0.6344 | -1.024   | -0.1944 | 0.5956    | 0.7744   | -0.03687 | 1.206   | -0.9644  | 0.2156   | 0.005625  |
| 1.218   | -0.2419  | 0.4881  | 0.3381    | 1.277    | 1.996    | 0.5781  | -0.6519  | -0.4319  | -1.142    |
| -1.13   | -0.08    | -1.31   | 1.31      | 2.199    | 0.7275   | -0.81   | -1.35    | 0.08     | -2.7      |
| -0.57   | 0.23     |         | 0.4       |          | 2.068    | -1.78   |          | 5.73E-09 | -5.19E-09 |
| 0       | 1.19     | 0.26    | 0.46      |          |          | -0.29   | -0.34    | 0.87     |           |
| -0.9509 | 0.01906  |         | 1.019     | -0.1822  | 3.467    | -0.8509 | 0.5291   | -1.201   | -0.7409   |
| -0.9119 | 1.068    | 0.2781  | 0.7481    | 2.167    | 0.3356   |         | 0.6481   | 1.108    | -0.2919   |
| -0.83   | 1.16     | -0.1    | 0.53      | 1.859    | 0.4975   | 0.5     | 0.14     | 1.06     | 5.37E-10  |
| -1.159  | 0.05125  | -0.2688 | -0.2588   | 2.34     | 1.289    |         | -1.299   |          |           |
| -0.66   | 0.67     | -0.2    | 1.19      | 1.149    | 0.9775   | 0.22    | 0.14     | -0.38    | 1.96      |
| 0.3912  | 0.5412   | -0.3388 | -0.3288   | 0.31     | 0.8688   | 0.5913  | -0.4287  | 0.2113   | -0.4688   |
| -1.85   | 3.01     | 1.35    |           | 3.449    |          | 0       | -0.05    | 5.27     | -0.54     |
| -0.66   | 0.63     |         | 1.05      | 2.779    |          |         | -0.48    | 0.44     | 0.09      |
| -0.2088 | 0.3112   | 0.4312  | 0.6412    |          | -0.00125 |         | -0.02875 | 1.461    | 0.8112    |
| -0.74   | 0.18     |         | 0.84      | -0.05125 | -0.3725  | 0.59    |          | -0.27    | 1.22      |
| 0.08812 | -0.2019  | 0.2481  | 0.1281    | 3.117    | 0.9456   | 0.4781  | -0.5519  | 0.3681   | 0.7981    |
| 0.65    | 1.03     | -0.31   | 2.32      | 1.289    | -0.2425  | -0.15   | 0.22     | -0.04    | 1.63      |
| -0.94   | -0.73    | 0.35    | 1.64      | 3.379    | 2.628    | 0       | 0.72     | -1.49    | 3.82      |
| -0.5    | -0.77    | 0.61    |           | 4.119    |          |         | 3.59     | 0        |           |
| -2.17   | 0.59     | 0.28    | -3.39     | -0.09125 | -0.1425  | 0.28    | -1.84    | -1.46    | -0.16     |
|         | -0.00875 | 0.2212  | -0.9688   |          | 0.00875  |         | 0.1413   | 0.05125  | -0.4888   |
| -1.31   | 0.3      |         | 0.72      | 2.019    | 1.228    | -0.28   | -1.7     | -0.56    | 0.19      |
| 1.892   | -1.158   |         | -0.0375   | 0.00125  | -0.6     |         | -0.1375  | -2.927   | 1.272     |



Table 2

| SW872   | BT-549   | H578T    | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474   | MCF7-NCI | T47D     |
|---------|----------|----------|-----------|----------|----------|---------|----------|----------|----------|
| ARRY8X  | ARRY10X  | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X  | ARRY14X  |
| 1.181   | -0.09875 | -0.5488  | 0.9712    | 0.13     | 0.1288   |         | -0.3087  | -0.6087  |          |
| 0.1012  | -1.589   | -2.209   | -1.469    | 0.57     | -0.2612  | 1.941   | 0.09125  | 0.08125  | -0.5988  |
| 1.29    | 2.33     | 0.49     | -1.24     |          |          | -2.86   | -2.17    | -0.67    | -2.4     |
| 1.5     | 2.84     | 0        | -1.19     | -0.3712  | -1.452   | -0.77   | -0.54    | -0.55    | 0.38     |
| 3.614   | -0.5159  | -0.4159  | -0.4559   | 2.263    | 1.972    | 1.634   | -0.4359  | -0.05594 | 1.504    |
| 0.6     | 0.25     |          | 1.57      |          | 0.1675   | -4.02   | -4.6     | -2.65    | 5.37E-10 |
| 1.176   | -0.2244  | -0.4344  | 1.706     | -1.426   | 0.9931   | -0.9244 | -1.284   | -1.314   | -0.7444  |
| 1.35    | -0.72    | 0        | 2.12      | -0.5912  | 0.3375   | -3.52   | -2.05    | -2.28    | -0.6     |
| 1.135   | -0.625   | -0.005   | 1.885     | -0.00625 | 1.723    | -2.125  |          | -0.945   | -0.045   |
| 1.561   | 0.4712   | -0.3088  | 1.961     | -0.17    | 2.819    | -2.439  | -0.02875 | -1.529   | 0.8613   |
| 0.8256  | 0.2056   | 0.1056   | 1.686     | -0.8856  | 1.903    | -1.784  | -0.2944  | -1.464   | 0.6356   |
| 0       | 0.77     | -0.86    | 1.98      | 0.1488   | 1.818    | -0.68   | -1.99    | -2.04    | -0.72    |
| 0.09    | -0.01    | -0.08    | 0         | 0.6188   | 2.568    | -0.69   | 0.26     | -2.04    | -0.39    |
|         | 3.491    | 1.741    |           |          | 2.379    |         | -0.6687  | -1.079   | -0.1488  |
| 0.08812 | 1.658    | -0.2719  | 0.03812   | 1.047    | 1.126    | -2.112  | -0.2619  | -0.9619  | -0.6519  |
| -0.2144 | 1.056    | -0.7344  | 0.4156    | 1.034    |          |         | -0.1444  | -1.504   | -0.3644  |
| 1.381   | 2.971    | -0.9288  | -0.7188   | 0.16     | 1.449    | -1.209  | -2.959   | 0.4313   | -1.669   |
| 1.32    | 3.46     |          | 0         | 1.149    | 1.808    | -1.5    | -1.82    | 0.5      | -0.55    |
| 1.041   | 2.221    | -0.2688  | 0.3512    | 0.89     | 1.749    | -1.179  | -0.1487  | 0.6113   | -0.4688  |
| -0.9288 | 1.831    | -0.02875 | -0.5188   | 0.3      | -1.601   |         | -2.029   | -0.6187  | -0.2188  |
| -1.105  | 3.235    | 0.945    | -0.065    | -1.436   | -2.197   |         | -0.245   | -0.485   |          |
| 0.565   | 2.315    | -0.135   | -0.025    | 1.034    | 0.0825   | -1.205  | -0.395   | -0.195   | 0.025    |
| 0.08125 | 1.121    | -1.179   | 0.02125   | -0.02    | 0.05875  | -0.4587 | -0.1287  | -0.09875 | -1.159   |
| 0.05125 | 1.711    | -1.029   | -0.5388   | -0.64    | 1.359    | -0.5088 | 0.1213   | -0.5187  | -0.4088  |
| -1.248  | 4.252    | -0.4975  | 1.822     | 2.421    | 0        |         |          | -0.8975  |          |
| -0.31   | 2.25     | -0.79    | 0         | 0.03875  | 0.4675   | -2.33   | -2.21    | -1.22    | -2.44    |
| -0.205  | 2.535    | -0.845   |           |          | 0.4325   | -1.905  | -2.025   | -1.145   | -0.895   |
| 0.4006  | 2.311    | -0.4194  | 1.841     | 0.9394   | 2.228    |         | -0.1694  | -0.9094  | -0.2694  |
| -0.15   | 2.01     | -0.49    | 0.47      | 0.3688   | 1.078    | -0.46   | -0.07    | -1.07    | -0.46    |
| 0.0925  | 3.092    |          | 0.6325    | 0.00125  | 1.73     | -2.208  | -1.647   | -1.377   | -1.808   |
| 0.13    | 0.99     | 1.57     | -0.44     | -0.9012  | 1.698    | -0.32   | -0.28    | -0.16    | -0.85    |
| -0.37   | 0.89     | 1.2      | -0.37     | -1.561   | 1.398    | -0.78   | -1.18    | -0.61    | -1.06    |
| -0.4544 | 0.8056   | 1.056    | -0.6944   | -1.106   | 1.493    | -0.6844 | -0.7944  | -0.5944  | -1.034   |
| -0.04   | 1.1      | 1.52     | -0.5      |          | 1.378    | -1.07   | 0        | -0.14    | -0.37    |
| 0.2     | 0        | -0.78    | 0.58      | -0.1512  | 0.0775   | 0.3     | -1.97    | -1.39    | -0.44    |
| -0.32   | 0        | -0.76    | 1.67      | 0.4688   | -0.7225  |         |          | -0.6     | 1.17     |
| -0.35   | 0.65     |          | -0.61     | 3.239    | 1.688    | 0       | 0.27     | -0.51    | -1.43    |

Table 2

| SW872    | BT-549   | HS578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474   | MC7-NCI | T47D     |
|----------|----------|----------|-----------|----------|----------|---------|----------|---------|----------|
| ARRY8X   | ARRY10X  | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X | ARRY14X  |
| 1.481    | 0.6912   | 0.1412   | 1.471     | 2.3      | 3.169    | -0.1387 | -1.769   | -0.5287 | -1.299   |
| 1.468    | -0.05188 | -1.612   | 1.478     | 1.637    | 2.876    | -0.6619 | -2.412   | -3.292  | 0.01812  |
| 0.9      | -1.18    | 0.94     | 3.6       | 1.659    | 2.108    | -1.95   | -1.1     | -2.36   | -0.91    |
| 1.191    | -1.539   | -1.029   | 1.571     | 2.26     | 1.559    | -5.179  | -3.349   | -1.609  | 0.4313   |
| -0.8775  | 0.1325   |          | -0.4975   | -0.7888  | 0        | -1.628  | -0.5875  | -1.448  | -1.128   |
| -0.1194  | -0.2594  | -0.06938 | 0.3106    | 0.07938  | 0.7481   | -0.4394 | -0.02937 | 0.3206  | 0.3106   |
| -0.03    | 0.33     | 1.51     | -0.7      | -0.9912  | -0.5725  | 0       | 1.56     | 0.18    | 0.8      |
| -1.834   |          |          | 0.1456    |          |          | -0.8344 | -0.1644  | -0.9044 |          |
| -0.43    | 0        | 0.75     | -0.97     | 0.8788   | -1.332   | -1.09   |          | -0.55   | -0.92    |
| 2.006    | -2.194   | -1.014   | -3.114    | 0.9044   | -1.097   | 3.246   | -2.114   | -0.9244 | -1.294   |
| 2.501    | -1.519   | -0.3388  | -1.979    | 1.22     | -0.1512  | 3.661   | -1.149   | -0.3587 | -0.3888  |
| 2.211    | -1.339   | -0.7188  | -1.549    | 0.96     | -0.4012  | 3.511   | -1.319   | -0.3787 | -0.5888  |
| -0.57    | 0.68     | -0.06    | 0         |          |          |         |          | 0.4     | -1.06    |
| -0.045   | 0.055    | 0.045    | -0.255    | -1.716   | 1.113    |         | -0.335   | -0.675  | 0.335    |
| -0.5194  | 0.6306   | 0.01062  | 0.3706    |          | -0.4119  |         | 0.03063  | -0.3594 | 0.9406   |
| 0.5425   | -0.4275  | 0.1525   | 1.572     | -0.04875 | 0        | 0.6925  | -0.7575  | -0.3075 | -0.2775  |
|          | 0.79     | -0.12    | 0.54      |          | 0.0275   | -1.37   | 0        | -0.82   |          |
| -0.03094 | -0.1509  | 0.4791   | 1.369     | 1.348    | -0.2634  | 0.4191  | -1.251   | -0.6209 | 0.2891   |
| -0.03875 | -1.159   | -0.7288  | -2.109    | -0.82    | -1.671   | 0.4012  | -0.9587  | 0.8213  | 1.291    |
| 0.58     | 0.55     | 0        | 0.55      | -1.011   | -2.092   | 2.47    | -0.77    | 1.08    | -0.21    |
| 0        | 0.02     | 0.9      | 0.87      | -0.2612  | -0.7425  | 0.52    | 0.36     | 0.11    | -0.11    |
| 0.1925   | 0.2325   | -0.4975  | 0.1425    | 0.2412   | 0        | 0.1225  | -0.6075  | 0.7125  | -0.0375  |
| 1.778    | 2.818    | 2.038    | -0.9419   | -1.843   | -1.984   | 1.108   | 0.9281   | -0.5519 | -0.02188 |
| 2.425    | 0.275    | 0.055    | -0.055    | 1.234    |          | 0.785   | 0.915    | 1.765   | -0.995   |
| -0.815   | -0.645   | 0.225    | -1.595    | -0.9262  | -1.057   | 0.525   | -0.115   | -0.025  | 4.915    |
| 0.305    | 0.615    | -0.255   | -2.495    |          | -1.597   |         | 1.495    | -1.175  | 1.705    |
| 0.425    | 2.145    | -0.735   | -3.785    | -2.076   |          | -1.885  | 0.135    | -2.955  |          |
| 0        | -0.3     | 0.38     | -0.28     | -2.351   |          | 2.76    | 2.53     | -0.94   |          |
| 0.075    | -0.285   | -0.205   |           |          | -1.177   | 5.055   | 0.345    | -0.005  | 0.215    |
| -1.17    | -0.01    | -1.01    | -0.76     | 0.2488   | -1.122   | 2.7     | 1.79     | -0.13   | 3.92     |
| -1.02    | 0.51     | 0.21     | -0.55     | -1.821   |          | 0.15    | 1.22     | 0       |          |
| -0.68    | -0.27    | 0        | -0.52     | -1.201   | -0.8625  | -0.98   | 0.22     | -0.2    | 1.21     |
| -0.25    | 4.33     | 2.65     | 0         | -3.831   | -2.852   |         | 0.26     | 0.01    | 0.28     |
| 0.3913   | 0.6012   | 1.771    | 0.6712    | -3.23    | -1.991   | -1.159  | 0.9813   | 0.07125 | -0.04875 |
| 0.34     | 0.73     | 0.38     | 0.41      | 2.179    | -2.902   | 0       | 0.88     | 0.51    | -1.62    |
| -0.31    | 0.29     |          | 0.32      | -0.3613  | -0.9125  | 0.23    | 0.51     | 0       | 0.47     |
| -0.05    | 0.7      | 0.36     | -0.17     |          |          | 0.05    | -0.16    | -0.29   | 0.09     |

Table 2

| SW872   | BT-549   | HS578T  | RPMT-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474   | MCF7-NCI | T47D    |
|---------|----------|---------|-----------|----------|----------|---------|----------|----------|---------|
| ARRY8X  | ARRY10X  | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X  | ARRY14X |
| -0.48   | 0.31     | 1.06    | 0.72      | 0.7587   | -1.202   | 0.59    | 0.32     | 0        | 0.29    |
| 0.4547  | 1.875    | 1.325   | -1.725    | -0.4966  | 2.142    |         | -1.685   | -0.7753  |         |
| 0       | 0.55     | -0.42   | 1.48      | 0.4188   | -1.082   | -0.05   | 0.53     | 0.75     | 0.52    |
| -0.73   |          | 0.35    | 0         | -0.6512  |          | -0.41   | 0.31     | -0.2     | -0.06   |
| 4.822   | 1.552    | 2.142   | -1.048    | 0.00125  | -1.93    | -1.168  | 0.1625   | 1.793    | 3.592   |
| -0.32   | 0        | 0.98    | 1.35      | -0.8612  |          | 4.45    | -0.2     | 1.05     |         |
| 2.734   | 1.394    | 1.174   | -1.276    | 1.163    |          | 1.414   | 0.8541   | 1.474    | 1.534   |
| 2.145   | 0.8847   | 0.8047  | 0.6047    | -0.9966  |          | 3.345   | 2.585    | 1.465    | 2.565   |
| 0.34    | 0.02     | -1.42   | 0         | 0.8088   | -2.582   | 3.76    | 2.76     | 2.6      | 2.12    |
| -0.345  | -0.755   | -0.445  | 0.075     |          | -1.807   | 7.845   | 0.325    | -0.075   | 0.845   |
| 0.2312  | 0.8612   | -0.3488 | 3.001     | -3.15    | -1.591   | 5.461   | 2.751    | 3.131    | -0.9688 |
| 1.166   | 1.186    | 1.066   | 4.676     | -0.8456  | -0.3469  | 6.606   | 4.906    | 4.516    | 0.01562 |
| -0.6187 | 0.1412   | -0.3388 |           | -0.9     | -1.011   | 2.541   | 0.2613   | 0.6513   | 0.04125 |
| 1.285   | -2.205   | -0.445  | 1.185     | -1.676   | -3.197   | 2.465   | 0.195    | 1.135    | 0.675   |
| 0.1725  | 0.1425   | 0.4625  | 1.092     | -0.08875 | 0        | 0.4425  | 0.3025   | -0.0775  | -0.6875 |
| 0.39    | 0        | 1.02    | 0.47      | 0.7088   | 0.0775   | 1.13    |          | -0.54    | 0.36    |
| 3.575   | 0.495    | -0.095  | 0.035     | -0.7662  |          | 1.125   | -0.315   | 0.315    | 0.175   |
| 0.3181  | 2.098    | 4.168   |           | -0.8431  | -0.6044  |         | 1.428    | -0.2919  | 2.928   |
| -0.035  | 0.035    | 0.335   | -0.055    | -0.8862  | -0.7675  | 0.275   | 1.135    | -0.015   | 0.515   |
| 0.345   | -0.645   | 0.475   | -0.085    | 3.724    | -0.2675  | -0.325  | 0.125    | 1.765    | 1.895   |
| 0.42    | 0        | 1.63    | 0.12      | 3.719    | 0.4075   | -0.42   | 0.08     | 1.29     | 1.17    |
| 0.3     | 1.85     | 1.51    | 0         | 1.889    | 3.818    |         | -0.04    |          | -0.72   |
| 0.1106  | -0.5594  | -0.2394 | 0.5406    | 1.819    | 1.168    | 0.7006  | 0.6506   | 0.8806   | 2.531   |
| -0.2794 | -0.4494  | 0.8506  | -0.6594   |          | -1.272   |         | 2.141    | 0.9606   | 2.761   |
| -0.7244 | -0.04438 | 0.8256  |           | 1.734    | -1.537   | -1.624  | 1.786    | 0.9856   | 2.106   |
| -0.11   | -0.14    | -1.69   | 0.35      |          | -0.5025  | 0.11    |          | -1.91    | -0.49   |
| 0.1997  | -0.2303  | -0.8303 | -0.2503   | 0.4484   |          | -0.1703 | -1.87    | 0.3197   | -0.5903 |
| -1.314  | -0.1238  | -1.044  | -0.8938   | 0.125    | -0.3762  | -0.3637 | -1.834   | -2.124   | 1.156   |
| -0.2519 | 1.028    | 0.02812 | -1.022    | -0.2031  | -0.8744  | -0.5619 | -1.152   | -1.972   | -0.5519 |
| -0.6575 | 0.1025   | -0.0675 | -0.2675   | -0.9488  | 0        | -0.5075 | -0.6075  | -0.0275  | 1.472   |
| 0.09062 | -2.809   | -0.8094 | 1.831     | 0.4594   | 1.048    | -2.239  | -0.6794  | -0.6494  | -0.6794 |
| -1.59   | -2.11    | -1.76   | 1.89      | 0.9788   | 1.018    | -1.18   | -1.76    | -2.35    | -2.04   |
| -1.052  | 1.868    | -0.5219 | 0.8781    |          | 0.2756   |         | 0.1181   | -0.07187 | 1.078   |
| -2.22   | 1.33     | -1.56   | 0.41      |          |          | -1.35   | -1.31    | 0.23     |         |
| -0.45   | 0        | 0.24    | -0.1      | 0.7888   | 0.6175   | -0.22   | 0.73     | -0.1     | 0.38    |
| -1.222  | 0.05812  | -1.462  | 0.1481    | 0.8069   | 0.3156   |         | -0.09187 | -0.08187 | -0.4819 |
| -0.645  | -0.575   | -1.075  | -0.845    | -0.6262  | -1.097   | 0.115   | 0.415    | -0.145   | -0.115  |

Table 2

| SW872    | BT-549  | HS578T  | RPM1-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D    |
|----------|---------|---------|-----------|----------|----------|---------|---------|----------|---------|
| ARRY8X   | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X |
| -0.54    | -0.18   | -0.65   | 0.55      | -0.1813  |          | -0.68   | 0       | -0.03    | -1.15   |
| -0.06875 | 1.011   | -0.6488 | 1.291     | -0.28    | -0.5512  | -0.2987 | -0.2987 | 0.2813   | -0.3488 |
| -0.7775  | 2.562   | -0.1675 | 0.3325    | 0.6812   | 0        | 0.4025  | -0.3475 | -0.4575  | -0.5175 |
| -0.9875  | 2.122   | -0.6175 | 0.2925    | 0.1312   | 0        | 0.7725  | -0.3175 | -0.2075  | -0.5675 |
| -0.6919  | 1.518   |         | 0.8781    | 0.1769   | -0.03437 | -0.6619 | -0.8919 | -0.3019  | 0.3681  |
| 0.63     | 0.85    | 1.29    | 0.92      | 1.469    | 2.558    | -0.62   | -0.11   |          | 0.11    |
| -0.9375  | -0.9675 | 1.092   | -1.258    | 3.731    | 0        | 0.0525  | 0.3325  | -0.8375  | 1.242   |
| -0.22    | 2.7     | 0.88    | 0         | 6.309    | -1.782   | 0.72    | 0.03    | -0.39    | -1.3    |
| -0.05    | 2.52    | -0.08   | -1.45     |          |          | 0.72    | 0.88    | -1.29    |         |
| -0.4819  | 1.378   | -0.3719 | 0.1181    | 3.187    | 1.666    | -1.212  | 0.3781  | -1.392   | 1.258   |
| 0.1947   | -0.7053 | -0.9453 | -0.5453   | 2.663    | 3.862    | -1.045  | 1.285   | -0.7753  |         |
| -0.22    | 1.11    | 0.63    | -0.25     | 1.169    | -1.712   | -2.27   | -0.48   | -1.15    | -0.2    |
| -0.34    | 1.75    | -0.49   | 0         | -0.00125 | -1.242   | 0.6     | -0.65   | -0.17    | 1.51    |
| -1.176   | 1.474   | -1.116  | 0.4841    | -1.107   | -1.738   | 0.9941  | -1.566  | -0.5459  | 1.474   |
| -0.2719  | 0.9281  | 0.5081  | 0.05812   | 1.437    | -1.084   |         | -0.2819 | -0.03187 | -0.9019 |
| -0.01    |         |         | 0.72      | 0.2988   | 0.1375   | -1.14   | 2.81    | 0.08     | -0.17   |
|          | -0.79   | -0.74   |           |          | -0.7725  | 0.48    | 0       | 0.15     | 1.62    |
| -2.539   | 1.251   | -0.6588 | -2.069    | -1.41    | -0.1712  | 0.1712  | 0.5112  | 0.4412   | 0.7212  |
| 0.095    | -1.215  | -0.095  | -0.325    |          | -1.277   |         | 1.535   | 1.545    |         |
| -3.378   | -3.568  | -3.478  | -0.7475   | 0.00125  |          | -3.498  | 0.5225  | 0.3525   | -1.278  |
| -2.1     | 0.06    | -1.33   | 1.67      | -2.051   | -0.2925  | 0.55    | 0.67    | 0.07     | -1.58   |
| -0.1088  | 0.3412  | -0.3688 | 0.3612    | -1.39    | 0.1088   | -0.6088 | -1.369  | 0.2413   | -0.6088 |
| -0.7     | -1.55   | -1.08   | -2        | -2.481   | 5.698    | 3.5     | -0.85   | 0.23     | -0.23   |
| -0.2038  | -1.144  |         | -0.3438   | 0.055    | 1.984    |         | -0.4837 | -0.8837  | -0.7838 |
| 0.0225   | -0.0075 | 1.162   | -0.4375   | -1.559   | 0        | 0.4425  | 0.0725  | 0.1925   |         |
| -1.74    | -1      | -1.31   | -2.03     |          |          | -1.22   | 0.94    | -0.36    | -0.02   |
| 0.15     | 0.16    | -0.61   | -0.15     | -0.2013  | 0.9975   | -0.1    | -0.52   | 0        | 0.21    |
| -1.379   | 0.1612  | -0.9188 | -2.729    | 2.79E-11 |          | 0.01125 | 0.00125 | -0.9887  | -1.719  |
| 0.01     | -0.72   | 0.86    | -0.08     | -1.571   | 2.728    | 0.41    | 0.06    | 0.43     |         |
| -1.042   | -1.232  |         | 1.378     | -2.063   | -1.164   | 4.148   | 2.668   | -1.112   | -0.7519 |
| 0.7112   | 1.031   | 0.9912  |           | -1.47    | -0.6912  |         | 1.771   | -0.4887  | -1.809  |
| 3        |         |         | 1.82      | -1.231   |          | 1.35    | 3.26    | 0.55     | -0.27   |
| -0.51    | -0.08   | -0.56   | 0.59      |          | 0.5875   |         | 0.68    | -1.18    | -0.11   |
| 1.67     | -0.42   |         | 0.12      | -0.6312  | 2.048    | -0.29   |         | -0.78    | -1.91   |
| 0.6      | -0.6    | 0.91    | 0.34      | -0.1512  | 1.288    |         |         | -0.53    | -2.51   |
| 0.4006   | 0.06062 | 0.01062 | -0.4094   |          | 1.048    | 0.2606  | -1.159  | 0.3306   | -0.5494 |
| 0.8      | -1.03   | 0       | 1.17      | -3.431   | 0.7575   | 0.71    | -1.48   | -1.81    | 0.58    |

Table 2

| SW872   | BT-549  | HS578T  | RPM1-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474   | MCF7-NCI | T47D     |
|---------|---------|---------|-----------|----------|----------|----------|----------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X  | ARRY15X  | ARRY14X  |
| 1.975   | 0.575   | 0.615   | -1.505    | -1.106   | 0.9275   | -1.425   | 1.045    | -1.355   | -0.065   |
| 0.28    | 0.85    | -0.02   | -1.12     | -2.761   | 0.7966   | 0.02     | 0.16     | -0.27    | 0.59     |
| 0.2691  | 0.02906 |         | -1.971    |          | 0.7966   |          | 1.269    | -0.7109  | -1.291   |
| 0.2     | 0.95    | -0.05   | -0.88     | 0.3187   | 0.7475   | 0.01     | 0        | 0.81     | -0.35    |
| 0.5     | 0.58    | 0       | -0.51     | 0.08875  | 0.7075   | 0.12     | 0.08     | 1.02     | -0.35    |
| 0.97    | -0.84   | -1.84   | -3.08     | -4.461   | 0.5475   | 0.6      | 0.12     | 0        | 0.84     |
| 1.33    | -0.96   | 0.96    | -0.25     | 0.9388   | 0.4175   | -0.27    | 0.14     | 1.24     | 1        |
| 0.4     | -1.25   |         | -2.21     | -0.8612  | 0.7275   | -0.05    |          | -2.4     | 5.37E-10 |
| 2.106   |         | 2.506   |           | 0.025    | 1.954    |          | -0.02375 | -1.604   |          |
| -0.92   | -0.65   | 0.06    | 1.06      | -2.941   |          | 0.9      | -0.45    | -0.53    | -3.34    |
| -0.5519 | 1.418   | 1.408   | 0.5781    | -1.203   |          | -2.112   | 0.7281   | 0.7681   | -1.072   |
| -1.645  | -0.7053 |         | 1.655     | -1.477   |          | 0.5147   | 2.245    | 1.485    | -2.065   |
| -3.4    |         |         |           |          |          | 0        | 0.48     | 0.12     |          |
| -0.76   | 0.53    | -0.14   | 0.81      | 0.7188   | -0.1825  | -0.17    | -0.51    | 0.26     | -0.2     |
| -1.034  | -1.944  |         | -0.4844   | 1.494    | -1.677   | 1.686    | -1.734   | 1.056    |          |
| 1.91    | 0.27    | 2.43    | 0         | -0.1512  |          | 0.75     |          | -0.67    |          |
| 1.109   | -0.1709 | 1.589   | -1.531    |          |          | 0.2791   |          | -0.9709  | 3.089    |
| 0.51    | 0.45    | -0.02   |           | -1.191   |          | 0.78     | 0.11     | 0.52     | 5.37E-10 |
| 0.31    | 1.22    | -0.03   | 0.63      |          |          | 0.03     | -0.76    | -0.05    | -0.25    |
| 2.655   | 0.765   | 0.825   | -1.305    | -0.5962  | -2.257   | 0.115    | 0.955    | 1.205    |          |
| 1.91    | 0       | 0.04    | -3.61     | -0.2412  | -0.2625  | 1.53     | 2.11     | 2.05     | 1.95     |
| -0.3831 | 0.1269  | -0.6031 | -0.6731   | -0.1644  | -0.04562 |          | 0.9269   | 1.757    | -0.6531  |
|         | 0       | -1.58   | -1.73     |          |          | 0.12     | 0.78     | 0.99     | 0.44     |
| 0.54    | 0.24    | -1.8    | -0.1      | -0.09125 | -0.1425  | 0        | 0.48     | 1.3      | 0.19     |
| 0.56    | 0.27    | -2.08   | -0.32     | -0.7312  | -0.1125  | 0        | 0.64     | 1.08     | 0.31     |
| -0.3397 | -0.4897 | 1.68    | -2.02     | -3.041   | 0.007813 | 1.66     | -0.4697  | 4.46     | 2.73     |
| -0.43   |         | 0.3     |           | -1.011   |          | -0.63    | 0.01     | 1.75     |          |
|         | 0.2741  | -0.3659 | -1.476    |          | -1.958   | -0.4059  | 0.2241   | 0.5941   | -0.3359  |
| 0.9525  | 0.4625  | -1.188  | -2.158    | 0.00125  | -2.31    | 0.5525   | -0.2175  | 0.9725   | -1.018   |
| 0.2912  | 0.2012  | -1.309  | -2.769    | 0.15     | -2.551   | 0.4112   | -0.6087  | 0.8413   | -1.009   |
| -2.9    | 1.63    | 1.11    | -3.42     | -1.451   | -0.1425  | -1.22    | 0.13     | -2.15    | -0.89    |
| -1.569  | 0.8112  | -1.209  | 0.8712    | -1.81    | -1.831   | 1.291    | 1.341    | 0.1613   | 0.4112   |
| -1.622  | -2.022  | -1.312  | 0.8481    | -0.6731  | -2.334   | 0.1881   | 1.038    | 0.1281   | 0.4281   |
| 0.2725  | -4.358  | -3.378  | -3.488    | 0.00125  | 0.43     | -3.178   | -1.197   | -0.8175  | 0.2425   |
| 0.81    | -0.4    | 0.08    | 1.37      | -2.691   | -2.452   | 0.19     | 0.68     | 1.4      | 0.65     |
| -0.43   | -1.03   | -0.1    | 0.01      | -0.5313  |          | 1.51     | 0        | 1.38     | -1.32    |
| -0.4188 | 0.1412  |         | 0.9012    |          | -3.271   | -0.06875 | 0.8113   | 2.791    | 1.241    |

Table 2

| SW872    | BT-549  | HS578T  | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|----------|---------|---------|-----------|---------|----------|---------|---------|----------|----------|
| ARRY8X   | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| -1.16    |         |         | 1.41      |         | -5.302   |         | 3.14    | 1.39     |          |
| -0.73    | -0.19   | -2.59   | 0.34      |         | -2.302   | 1.33    | -0.2    | 0.47     | -1.03    |
| -1.649   | -0.8394 | -2.689  | 0.3006    |         | -4.992   | 1.511   | -0.1294 | 0.3306   | -0.7394  |
| 0.3525   | -0.3275 | -0.3775 | -1.678    | 0.00125 | -1.17    | 1.202   | 0.5125  | -0.3375  | -0.3675  |
| -3.386   | -0.6559 | 0.2241  | -3.876    | -2.677  |          | 2.344   | -0.1659 | 2.554    | -0.8459  |
| 0.3      | -2.82   | -0.61   | -2.57     | -2.311  | -2.412   | 1.72    | 0.79    | -0.05    | 0.4      |
| 0.4281   | -2.532  | -0.5019 | -3.522    | -3.083  |          | 1.848   | 0.6281  | -0.3619  | -0.1619  |
| -1.359   | -0.1688 | -1.189  | -0.8188   | -1.02   | -1.061   | 0.2712  | 0.4413  | -0.2887  | 1.621    |
| -1.545   | 0.035   | -0.995  | -0.405    |         |          | -0.035  | -0.325  | 0.125    |          |
| -2.798   |         | 0.3425  | -1.818    | 0.00125 |          | 1.742   | 1.513   | 0.7525   | 0.7125   |
| -2.609   | -1.439  | -2.609  | -0.7294   |         |          | 2.151   | 2.321   | 1.101    | 1.571    |
| -3.486   | 0.4541  | -2.316  | -2.846    | -3.327  | -2.828   | 2.334   | 2.534   | 0.2241   | 2.304    |
| -1.368   | 0.1425  | -1.498  | -1.108    | 0.00125 | -3.47    |         |         | -2.177   | 0.8925   |
| 0        | -1.59   | -0.69   | -3.59     | -4.971  | -5.152   | 0.4     | 0.11    | 1.78     | 1.06     |
| -0.82    | 0.88    | 0.24    | -2.49     | -3.571  | -4.132   | 1.57    | -0.14   | -0.3     | -0.8     |
| -0.1219  | -1.192  | -2.442  | -0.8919   | -0.6331 | -1.124   | 1.998   | 0.5381  | 0.7081   | 0.9981   |
| -1.79    | -0.91   | -1.11   | -1.46     |         | -0.3525  | 1.56    | 1.68    | 0        | -0.28    |
| -2.73    | -0.71   | -1.09   | 1.24      | -0.8313 | -2.652   | 0.12    | -0.2    | 0        | 0.22     |
| -2.206   | -2.596  |         | -0.5759   | -2.427  |          | 1.414   |         | -0.04594 |          |
| -2.51    | -0.16   | -1.59   | 0.13      | -5.591  |          | 0       | -0.13   | 0.4      |          |
| -2.131   | -1.061  | -0.8009 |           | -1.632  | -0.9934  | 0.2291  | 1.439   | 1.159    |          |
| -2.55    | -0.27   | -0.55   | -0.33     | -1.941  | -1.322   |         | 1.25    | 0.12     | -0.05    |
| -0.86    | 0       | -1.01   | -0.54     | -3.211  | -0.3125  | 1.2     | 1.88    | -1.12    |          |
| -1.03    | -1.75   | -0.61   | 0.94      | -3.051  | -1.882   | 2.36    | 0.72    | 0        | -1.15    |
| -2.38    | -0.81   | -3.76   | -3.71     | -1.991  | -1.682   | 1.65    | -0.1    | 0.89     | 5.37E-10 |
| -0.4419  | -1.032  | -1.762  | -3.292    | -3.583  | -6.244   | 1.988   | 0.1181  | 0.3981   | 0.1181   |
| -0.5844  | 0.9756  | -1.624  | -3.404    | -2.176  | -5.497   | 0.3956  | 0.6556  | -1.634   |          |
| -0.42    | 0.8     | -1.61   | -2.12     | -1.251  | -2.532   | 0.35    | 0.71    | -1.27    | -0.21    |
| -1.44    | 0       | -1.24   | -1.8      | -1.021  | -2.812   | 0.61    | -0.26   | 1.75E-08 | 0.71     |
| -4.529   | -0.1388 | -4.009  | -2.559    | -4.11   | -4.751   | 2.601   | 1.311   | -2.269   | -0.8288  |
| -1.835   | -2.405  | -1.345  |           | -4.476  | -4.657   | 1.065   | 1.485   | 0.055    |          |
| 0.5891   | -2.391  | -0.4809 | -0.1109   | -3.692  | -5.333   | 1.499   | -0.7409 | -2.121   |          |
| 0.94     | -1.29   | -0.47   | -0.64     | -3.091  | -2.552   | 1.65    | -0.34   | 0.23     | 1.02     |
| -0.31    | 0       | 0.23    | -2.55     | -1.641  | -5.282   | 1.26    | -1      | 0.79     | 0.66     |
| 1.09     | 0.03    | -0.6    | -5.22     | -2.211  | -6.362   | -0.7    | -0.5    | 1.09     | 0.49     |
| -0.12    | -0.77   | -0.57   | -3.36     | -1.181  | -3.102   | 1.81    | 0.68    | 0.29     | 5.37E-10 |
| -0.03094 | -0.6909 | -0.7209 | -3.961    | -1.252  | -2.903   | 1.229   | 0.4591  | 0.1291   | 0.3591   |

Table 2

| SW872    | BT-549  | HSS78T  | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474   | MCF7-NCI | T47D     |
|----------|---------|---------|-----------|----------|----------|---------|----------|----------|----------|
| ARRY8X   | ARRY10X | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X  | ARRY15X  | ARRY14X  |
| -3.38    | -2.51   | -3.02   | -3.58     | -4.381   | -3.722   | 2       | 0.42     | 1.36     | 5.37E-10 |
| -2.09    | -1.5    | -1.19   | -2        | -2.801   | 0.0175   | 0.48    | 0.69     | 0        | -0.06    |
| -1.962   | -0.7519 | -1.362  | -0.3519   | -1.743   | -3.304   |         | 2.348    | 1.518    | 1.128    |
| -3.21    | -3.58   | -2.06   | -3.53     | -3.861   | -2.622   | 1.82    | 0        | 1.75     | 1.99     |
| -3.01    | -3.33   | -3.99   |           |          | -3.642   | 1.89    | -0.08    | 1.78     | 2.04     |
|          | -4.184  | -3.184  |           |          | -3.347   | 2.296   | -0.3444  | 2.176    | 2.006    |
| -1.252   |         |         | -3.692    | -2.843   |          | 1.328   | -0.5419  | 1.378    | 1.008    |
| -0.72    | -1.07   | -1.11   | -0.85     | -1.021   | -1.472   | 0.58    | 0.95     | 1.64E-08 | -0.19    |
| -0.78    | -1.37   | -2.01   | -1.92     | -0.3413  | -1.152   | 1.67    | 0        | 0.73     | 1.15     |
| -1.64    | -2.79   | 0       | -3.2      | -2.051   | -2.862   | 3.01    | 1.8      | -0.68    | 0.61     |
| -0.1     | -2.46   | -2.2    | -0.65     | -1.581   | -1.652   | 2.03    | 1.4      | -1.29    | 1.58     |
| -1.364   | -1.524  | -1.974  | -0.2538   | 0.055    | -0.2262  |         | -0.05375 | -0.1537  | 1.456    |
| -0.65    | -1.55   | -0.06   | -0.92     | -0.2812  | -1.622   | -1.26   | 3.57     | 4.16     | 3.26     |
| -1.722   | -2.012  | -2.082  | -0.2319   | -1.273   | 0.1156   | -0.2319 | 0.8881   | 2.408    | 2.178    |
| -2.06    | -2.4    | -0.85   | -1.71     | -2.421   | -1.832   | 2.03    | 1.87     | 1.75     | 2.6      |
| -0.94    | -3.13   | -4.16   | -0.25     | -3.521   | -1.602   | 1.25    | 0.38     | 0        | 1.65     |
| -2.696   | -3.666  | -1.966  | -0.5959   | -4.217   |          | 1.804   | 0.01406  | 0.6641   | -0.2259  |
| -1.602   | -2.202  | -1.112  | 0.6081    | -2.493   | -2.024   | 0.6081  | 0.5081   | 0.7881   | 0.5481   |
| -2.599   | -1.989  | -0.8394 | 0.2906    | -1.151   |          |         | 0.9406   | 0.6306   | 0.7606   |
| -3.261   | -2.951  |         | 2.509     | -4.422   | -3.503   | 2.099   | 0.5691   | 0.4691   | 2.399    |
| -5.674   | -5.584  | -5.654  |           |          |          |         | 0.1063   | 0.5763   | 0.1862   |
| -4.089   | -3.539  | -1.869  | 0.4212    | -1.06    | -3.051   | 0.4513  | 0.8313   | 0.6213   | 0.5913   |
| -5.119   | -4.729  | -4.799  | 0.1712    | -1.26    | -6.041   | 0.6013  | 0.6013   | 0.7713   | 0.4413   |
| -4.599   | -5.049  | -5.119  | 0.3412    | -1.03    | -4.941   | 1.191   | 1.051    | 1.031    | 0.6213   |
| -2.35    | -2.14   | -1.21   | -2.2      | -4.071   |          |         | 0.04     | -0.04    | 1.25     |
| -2.279   | -2.159  | -0.4888 | -3.329    | 0.53     | -1.621   | 1.911   | 1.761    | 1.851    | 1.221    |
| -2.494   | -3.214  |         | -0.4744   | -1.746   | -0.7369  | 0.8156  | 0.1456   | -0.06437 | 1.116    |
| -1.72    | -1.13   | -0.19   | -0.99     | -1.021   | -4.692   | 2.13    | 1.65     | 1.96     | 3.3      |
| -2.03    | -0.84   | -0.97   | -0.95     | 0.2388   | -3.332   | 1.45    | 0.07     | -0.35    | 1.46     |
|          | -1.549  | -1.369  | -1.509    | -0.87    | -1.711   | 0.8813  |          | 0.9113   | 0.7212   |
| -0.06875 | -2.299  | -0.9988 | -0.9688   | -0.81    | -0.4312  | 1.241   | 0.8413   | 0.04125  | -0.2288  |
| -0.06    | -2.31   | -1.89   | -1.31     | -0.8412  | -0.7425  | 0       | -0.08    | 1.01     | 1.09     |
| 0.5191   | -3.491  | -0.2509 | -3.241    | 1.028    | -3.803   |         | 0.2891   | 1.559    | -0.1009  |
| 1.009    | -0.5809 | 0.2391  | -2.801    | -0.4222  | -3.483   | -1.071  | -2.431   | 0.1691   | 0.8491   |
| -0.4159  | -0.1059 | 0.2541  | -3.346    | -0.04719 | -3.668   | -1.106  | -1.226   | -0.5759  | 0.2341   |
| -0.4809  | -4.851  | -3.071  | -3.261    |          | -3.163   | -2.621  | 0.6491   | -2.961   | 0.6591   |
| 0.9025   | -1.798  | -0.3775 | -2.448    | 0.00125  | -3.11    | -2.338  | 1.823    | -1.727   | 1.012    |

Table 2

| SW872    | BT-549    | HS578T  | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474  | MCF7-NCI  | T47D     |
|----------|-----------|---------|-----------|----------|----------|----------|---------|-----------|----------|
| ARRY8X   | ARRY10X   | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X | ARRY15X   | ARRY14X  |
| -1.061   | -2.191    | -1.281  | -2.311    | 0.6378   | -2.687   | 0.009062 | -0.6809 | 0.9491    | 0.5991   |
| 0.255    | -1.985    | 0.165   | -1.885    | 1.304    | -0.9756  | 0.215    | -0.165  | -0.825    | -0.275   |
| -0.5331  | -1.143    | -1.343  |           | -0.09438 | -1.352   | 0.6169   | 1.137   | 2.227     | 1.107    |
| -0.31    | -1.19     | -1.06   | -2.86     |          |          | 0.6      | 1.28    | 2.46      | 2.21     |
| 0.5341   | -0.1959   | -1.166  | -2.846    | 0.9728   | 0.1616   | 0.6841   | 0.9541  | 2.474     | 1.274    |
| 0.4025   | -1.998    | -1.438  | -2.548    | 0.9812   | 0        | 0.5425   | 0.9725  | 2.302     | 1.412    |
| 0.005625 | 0.8356    | -0.6444 |           |          | -1.687   | 0.5556   | -0.2144 | 0.04563   | 0.9756   |
| -1.86    | -2.09     | 0.18    | -0.61     | 0.2988   |          | 0.73     | 2.09    | 0.93      | -0.08    |
| -3.352   | -2.762    |         | -2.072    | -3.813   | -0.2544  | 0.9181   | 1.888   | 0.8181    | -0.6319  |
| -0.45    | -1.85     | 0       | -0.89     | -1.371   | -1.342   | 1.6      | -0.92   | 0.12      | -2.32    |
| -1.648   | -0.9075   | 0.2125  | -0.8075   | 0.7312   | 0        | -0.6975  | -1.398  | 0.2525    | -0.6975  |
| -0.94    | -0.43     | -0.04   | -0.71     | 0.4088   | 0.4075   | 0.3      | -1.24   | -0.27     | 5.37E-10 |
| -0.885   | -0.185    | -1.105  | -1.295    | -0.6563  | -0.9075  | 0.855    | -0.055  | 0.055     | 1.385    |
| -0.9     | -1.47E-09 | -0.78   | 0         | -1.121   | -0.7925  | 0.91     | -0.19   | -0.43     | 1.56     |
| -0.9787  | 0.3812    | -0.9188 | 0.06125   | -3.3     | -1.321   | 0.5513   | -0.7587 | -0.00875  | 0.6512   |
| -1.42    | -1.1      | -1.48   | 0         | -3.241   | 0.4875   | 1.16     | -0.69   | 0.54      | 0.44     |
| -0.515   | -1.185    | -0.535  |           |          |          | 0.565    | 0.025   | 0.345     | 1.835    |
| -1.364   | -1.634    | -1.994  | 1.406     | -4.976   | -0.09687 | 0.5856   | -0.4544 | -0.1644   | 0.4656   |
| 0        | -3.22     | -0.74   | 0.91      | -4.161   | -1.402   | -0.66    | 1.01    | -0.21     | 0.92     |
| -0.9     | -0.38     | -1.46   | -1.67     | -2.471   | -1.982   | 0.36     | 0.04    | -0.35     | -0.04    |
| 0.79     | -0.45     | -0.55   | 1.05      | -4.581   | -4.342   | 0.71     | 1.22    | 0.93      | 1.24     |
| 0        | 0.7       | -0.53   | 2.64      | -2.611   | -4.252   | 1.58     | 1.04    | 0.52      |          |
| 1.47     | -1.17     | 1.09    | 4.21      |          | -4.002   | 0.78     | -1.71   | -0.54     | 5.37E-10 |
| -0.44    |           | -1.08   |           |          | -3.992   | 3.33     | 0.88    | 0         |          |
| 0.085    |           | 0.375   | -1.245    |          | -2.547   |          | -0.085  | -0.315    |          |
| -0.1809  | -2.591    | -2.341  | -2.021    |          | -3.643   | 0.1791   | -1.291  | -2.251    | 2.649    |
| -3.45    | -3.59     | -3.63   | -4.12     | -3.291   | -5.832   | 1.26     | 1.39    | -0.44     | 1.53     |
| -2.079   | -4.659    | -2.579  | -4.329    |          |          |          | -3.679  | -4.379    |          |
| 0.3147   | -0.5653   |         | -2.315    | -5.117   | -2.468   | 0.9347   | -2.185  | -4.265    | 0.1047   |
| -0.06031 | -1.55     | -1.82   | -1.67     | -3.422   |          |          | -3.23   | -2.67     | 1.72     |
| -1.742   | -2.102    | -1.312  | -5.112    | -4.393   |          | 1.178    | 0.8181  | -0.001875 | 0.2181   |
| -2.05    | -1.7      | -0.69   | -4.33     |          |          | 0.92     | 0.94    | 0         | -0.39    |
| -0.43    | -0.31     | -1.04   | -3.16     | -3.691   | -2.722   | 1.05     | 0.16    | 1.54      | 0.86     |
| 0.3281   | -2.872    | -0.8419 | -3.092    | -2.483   | -3.244   | 2.048    | 1.568   | -0.07187  | 1.038    |
| 0.18     | -2.57     | -0.17   | -2.02     | -4.241   | -0.9125  | 0.33     | 0.53    | 1.08      | 5.37E-10 |
| 0.1712   | -0.4988   | -0.6688 | -1.569    | -2.82    | -0.8112  | -1.039   | 0.7613  | -0.08875  | -0.4188  |
| 0.1212   | -0.4788   | -0.9288 | -1.859    | -3.17    | -0.8312  | -1.219   | 0.5313  | -0.3387   | -0.5488  |



Table 2

| SW872   | BT-549  | HSS78T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474  | MCF7-NCI | T47D     |
|---------|---------|----------|-----------|----------|----------|----------|---------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X | ARRY15X  | ARRY14X  |
| -0.1987 | 0.1512  | -0.6288  | -2.559    | -4.43    | -1.021   | -1.519   | 0.3613  | 0.6213   | -0.05875 |
| -0.145  | 0.265   | 0.605    | -1.265    | -5.086   | -4.047   | 1.375    | 0.275   | 0.545    | 0.725    |
| -0.55   | -1.24   | 1.08     | 0.06      | -5.371   | -4.552   | 0.38     | -0.19   | 0.03     | 5.37E-10 |
| 0.09    | -0.21   | 1.14     |           | -5.061   | -5.402   |          | 0.86    | -1.25    |          |
| -0.85   | 0       | 0.06     | -3.72     | -5.181   | -3.282   | -1.69    | -1.16   | 0.17     | 0.45     |
| -0.4103 | 1.82    | 1.14     | -3.89     |          |          | 0.7297   | -0.8403 | 0.4297   | 4.75     |
| 0       | 2.82    | 0.03     | -4.07     | -3.451   | -4.632   |          | 0.4     | -0.62    | 1.73     |
| 0.02    | 0.45    | -3.06    | -2.86     |          | -1.922   |          | 0.88    | -0.02    | -1.44    |
| 0       | 0.19    | -1.74    | -2.08     |          | -3.302   |          | 0.03    | 0.3      | -2.5     |
| -1.074  | 0.7956  | -2.524   |           | -2.146   | -3.007   | 0.4156   | 0.3356  | -0.06437 | -3.744   |
| -0.21   | -0.37   | -0.79    | -1.36     | -2.801   | -2.182   | -0.76    | 0.67    | 1.19     | -0.62    |
| -0.9719 | -0.5619 | -3.132   | 1.258     | -2.563   | -3.814   | -0.02188 | 0.2081  | 0.8081   | -1.732   |
| -1.67   | 0.33    | -0.12    | -1.63     | -1.291   | -1.012   | -0.52    | 3.32    | 0.05     | -0.05    |
| -0.8888 | -3.719  | -1.379   | 0.4712    | -0.33    | -2.281   | 0.2813   | -0.4987 | 0.4113   | -0.7988  |
|         | -0.1509 | -0.4409  | -0.5009   |          | -2.893   | 1.999    | 1.109   | -0.7809  | 0.2691   |
| -1.349  | 0.1006  | -0.02938 | -0.9594   | -0.5806  |          | 2.771    | 1.451   | -0.7894  | -0.9294  |
| -0.9875 | -0.7675 | -0.4175  | -1.128    | -0.8188  | 0        | 1.082    | 0.2025  | -0.6075  | -0.0075  |
| -1.288  | -3.068  | -2.008   | -2.508    | 0.00125  | 1.95     | 1.522    | -0.5975 | -0.9775  | 0.8525   |
| 0       | -0.14   | -1.35    | -0.37     | -0.08125 | -0.4525  | 0.75     | -0.75   | -0.2     | -0.2     |
| -0.66   | -1.74   | -0.47    | 0         |          | -3.902   | 0.18     | 0.07    | 0.36     | -1.29    |
| 0.08125 | -0.7488 | -1.559   | -1.279    | 0.78     | -0.06125 | -0.5788  | 0.2013  | 0.7213   | -0.3888  |
| -0.695  | -0.225  | 0.225    | -1.545    |          |          | -0.535   | 1.815   | -2.795   | 2.525    |
| -2.7    | -1.68   | -0.45    | -2.82     | 1.379    | 0.5475   | 0.57     | 1.52    | -1.33    | 3.02     |
| -4.104  | -2.994  | -2.154   | -4.614    | 2.305    | -0.03625 | -4.204   |         | -3.754   |          |
| -2.44   | 0       | -2.16    | -2.22     |          |          | -1.32    | -2.86   | -1.61    | 5.24     |
| 1.1     | 4.03    | 0        |           |          | -2.322   |          | 5.53    | 1.68     | 7.41     |
| 0.5103  | 3.45    | 1.39     | -0.9997   | 0.4891   | -1.732   | -0.7097  | 5.03    | 1.17     | 7.03     |
| 0       | 2.1     | -0.06    | 0.09      | -1.961   | -2.162   | 3.97     | 1.3     | 2.16     | 3.82     |
| 0.34    | 1.18    | -0.09    | -0.16     | -0.6713  | 1.428    | 2.16     | 0       | 1.1      | 2.31     |
| 2.487   | 1.147   | -1.683   | 1.277     | -0.1244  | -0.6856  | 1.257    | -0.3231 | 2.447    | 2.967    |
| -1.243  | 0.2069  | -0.06313 | 0.6869    | 0.02563  | -0.6456  | 1.157    | 1.327   | 1.037    | 1.717    |
| 0.01    | -0.73   | -0.01    | 1.08      |          | 0.2175   | -2.28    | 3.97    | 0.75     |          |
| 0.23    | -0.84   | -1.25    | 0.71      | 1.509    | 1.078    | -1       | 1.92    | 3.38     | -0.36    |
| 0.3412  | -1.499  | -1.039   | 0.2812    | 0.36     | -0.03125 |          | 2.301   | 3.211    | 0.07125  |
| 0       | -0.03   | -0.46    | 0.3       | 1.469    | 1.908    | -0.95    | 2.29    | 3.17     | 0.74     |
| 0.1813  | -0.7488 | 1.671    | -0.2288   | 0.65     | -0.7912  | -0.5187  | 2.941   | 5.861    | 3.931    |
|         | -0.1688 | 2.541    | -0.08875  | -1.89    | -1.071   | -0.2088  | 4.171   | 7.141    | 5.661    |

Table 2

| SW872   | BT-549   | HS578T   | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D    |
|---------|----------|----------|-----------|---------|----------|---------|---------|----------|---------|
| ARRY8X  | ARRY10X  | ARRY9X   | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X |
| 0       | -0.57    | -1.27    | 0.72      | -1.271  | 0.6875   | 1.4     | 1.05    | 1.05     | 0.09    |
| 0.55    | 0.04     | 0.81     | -0.04     | -3.781  | -0.1925  | 4.22    | 1.42    | -1.86    | 1.41    |
| -0.2819 | 0.6281   | -0.6719  | 0.2881    | -1.783  | 0.2756   | 2.298   | -1.352  | -1.002   | 1.398   |
| -0.5987 | 0.5312   | -1.729   | -0.8988   |         | 0.1288   | 0.3113  | 0.8813  | 1.241    | 1.251   |
| -0.4144 | 1.906    | 0.1456   | 0.8056    | -0.2856 |          | 3.046   | 3.506   | 2.506    |         |
| -0.25   | 0.14     | -2.44    | 1.92      | 0.9488  | 1.578    | 2.3     | 3.07    | 0.64     |         |
| -0.02   | 0.49     | -0.02    | 1.59      | -0.4212 |          | 3.35    | -0.12   | 0.02     | 0.75    |
| 0       | 1.96     | 1.29     | 3.98      | 1.109   | -0.1225  | 3.53    | 1.61    | 1.83     | 2.32    |
| -0.14   | 0.14     | 0.74     | 2.45      | 1.899   |          | 3.53    | 1.02    | 1.87     |         |
| 0.8806  | 2.361    |          | 2.001     | -1.371  | 2.068    | 3.231   | 1.981   | 1.641    | 0.1006  |
| -0.7038 | 0.7662   | -1.494   | -0.7738   |         | -0.1062  | 1.446   | 3.166   | 2.806    | 0.7662  |
| -0.92   | 0.38     | -1.42    | -0.26     | -1.241  |          | 0.26    | 2.76    | 4.75     | 1.34    |
| 0.1241  | 0.004062 | -0.2659  | 3.224     |         | -0.1784  | 0.4441  | 2.834   | 1.664    | 0.2441  |
| -0.41   | 0.34     | -1.31    | 0.34      | 0.4388  | 0.6075   | 0.99    | 0.6     | 0.7      | 1.48    |
| 0       | 0.05     | -0.34    | -0.87     | 0.8488  | -2.682   | 1.2     | 1.22    | 2.24     | 1.12    |
| -0.2388 | 1.781    |          | -0.6988   | 2.67    | -1.461   | 1.211   | 3.051   | 1.541    | 1.461   |
| 0.65    | 0.54     | 0.05     | -3.35     | 0.8188  | -0.8825  | -0.1    | 1.47    | 1.35     |         |
| 0.42    | 0.5      | -1.21    |           | 1.289   | -0.9425  | -0.17   | 1.18    | 1.24     | 0.93    |
| 0.3112  | -0.1688  | -0.1888  | -0.9088   | -0.59   | -0.3612  | 0.6213  | 0.2513  | 0.9913   | 0.7412  |
| -0.51   | -0.64    | 1.09     | -0.32     | 0.01875 |          | 0       | 1.54    | 1.15     | 1.98    |
| -0.61   | -0.1     | 0        | -0.61     |         | 1.868    | -2.54   | 2.61    | 0.74     | 2.7     |
| -1.372  | -1.642   |          | 0.5381    | 2.847   | 3.506    | 2.488   | 3.938   | -1.202   | 6.178   |
| -0.36   |          | 1.27     | 0         | 1.339   | 2.758    | 1.66    | 2.88    | -0.31    | 4.93    |
| -0.1887 | -0.6488  | -0.4288  | 0.7812    | 1.49    | 2.199    | 1.181   | 2.281   | 0.6113   | 3.791   |
| -0.3488 | -1.359   | -0.5388  | 0.7212    | 0.25    | 0.8088   | 1.451   | 1.241   | 0.7913   |         |
| -0.18   | 0.19     | -0.79    | -0.65     | -0.5812 | -0.7325  | 2.36    | 2.28    | 3.05     | 1.95    |
| -0.06   | 1.79     | 0        | 1.95      | -1.941  | -2.282   | 4.06    | 3.49    | 2.43     | 3.45    |
| -0.51   | 1.78     | 0.82     | 1.67      |         | -2.432   | 4.09    | 3.32    | 2.16     | 3.32    |
| -0.1609 | 1.919    | -0.02094 | 1.939     | -2.062  | -1.243   | 4.449   | 4.219   | 2.719    | 3.729   |
| 0.39    | -1.42    | -0.82    | 0.4       | -2.051  | -0.6225  | 1.55    | -0.29   | 1.61     | 2.46    |
| 1.251   | -1.479   | 0.5312   | 4.071     | -1.45   | -0.4712  |         | 2.381   | 4.591    | 3.671   |
| -1.182  | -0.6919  | -1.312   | -0.1719   | -0.8231 | -1.584   | 2.948   | 2.878   | 2.148    | 1.448   |
| -1.58   | -0.04    | -1.26    | 2.8       | 2.129   | 0.8475   | 4.35    | 1.98    | 1.91     | 1.07    |
| 0.2113  | -0.06875 | -0.7688  | 1.011     | 1.03    | -0.2512  | 2.351   | 1.731   | 2.021    | 2.241   |
| -2.979  | -3.009   |          | 2.291     |         | 0.3388   | 3.291   | 2.751   | 3.551    | 2.531   |
| 0.02625 | 0.09625  | 0.2762   | 2.116     | 0.445   | -0.02625 | 2.686   | 3.046   | 2.206    | 2.296   |
| 0.69    | -1.14    | -0.57    | 0         | -2.001  | 1.598    | 1.36    | 1.47    | 1.25     | 2.2     |

Table 2

| SW872   | BT-549    | HS578T   | RPM1-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D    |
|---------|-----------|----------|-----------|----------|----------|---------|---------|----------|---------|
| ARRY8X  | ARRY10X   | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X |
| -1.829  | 0.1106    | -0.1994  | -1.609    | -2.651   |          | 3.161   | 2.861   | 2.401    |         |
| -0.2738 | -0.5238   | -1.034   | -0.04375  |          | 0.04375  | 2.456   | 1.476   | 0.7263   | 1.936   |
| -1.009  | -0.2488   | -0.8288  | -3.029    | -1.83    | -1.311   | 1.831   | 1.831   | 2.281    | 2.761   |
| -1.454  | -0.2644   | -0.4044  |           | -1.036   | -1.387   | 3.546   | 3.636   | 3.966    | 4.396   |
| 0.91    | -0.77     | -0.02    | 0.2       | -3.221   | -2.612   | 2.98    | 2.08    | 2.69     | 2.31    |
| 1.12    | -0.69     | -0.36    | 0         | -2.421   | -1.712   | 2.91    | 1.53    | 2.56     | 2.29    |
| -2.251  | -2.061    | -2.131   | -2.611    | -2.412   | -2.593   | 3.979   | 2.259   | 5.329    | 3.899   |
| -1.34   | -0.93     | 0        | -0.92     | -0.9212  | 0.0375   | 3.83    | 1.87    | 4.2      | 4.22    |
| 1.58    | -3.45     | -0.1     | -0.32     | -4.581   | -2.342   | 3.15    | 1.57    | 4.87     | 3.31    |
| 0.8212  | -0.9988   | -0.1888  | -0.6988   | -0.08    | 0.2588   | 2.631   | 1.181   | 3.091    | 2.911   |
| -0.79   | -1.31     | 0        | -0.5      | -0.8612  | -1.352   | 4.9     | 3.3     | 3.47     | 4.45    |
| -1.432  |           |          | -0.9719   | -1.693   | -0.8744  | 4.958   | 3.478   | 4.158    | 4.338   |
| -0.4    | -1.72     | -0.96    | 0         | -0.2012  | -0.3025  | 5.34    | 3.86    | 4.39     | 4.61    |
| -1.695  | -1.725    | -2.535   | -1.215    |          | -3.358   | 5.985   | 3.005   | 3.445    | 2.465   |
| -2.39   | -1.68     |          | 0         |          |          | 5.01    | 1.8     | 2.48     | 1.91    |
|         | -3.872    | -2.022   | -2.482    |          | -4.504   | 4.508   | 2.458   | 4.028    | 4.018   |
| 0.6025  | 1.002     | 0.9825   | -0.1475   | 0.00125  | -1.54    | 4.892   |         | 1.783    | 3.902   |
| 0.02    | 0         |          |           | -0.06125 | 0.3975   | 4.04    | 2.97    | 0.87     | 2.71    |
| -0.2394 | 0.5906    | 0.05062  | 0.2006    | -0.2606  | 0.2881   | 3.951   | 2.561   | 0.3106   | 3.851   |
| -1.082  | -1.012    | 0.5581   | 2.558     | -0.1431  |          | 2.478   | 3.708   | 2.878    | 2.948   |
| -1.026  | -0.3359   | -0.9959  | 2.334     |          | -0.5184  | 2.344   | 3.114   | 2.274    | 2.574   |
| 0.17    | -5.03E-10 | 5.03E-10 | 3.36      | -0.4412  |          | 5.3     | 2.94    | 3.6      | 4.87    |
| -0.7287 | -0.3488   | -0.2788  | 1.451     | 0.37     | -0.1712  | 2.871   | 1.621   | 1.321    | 2.161   |
| 3.48    | -0.11     | 0        | -0.3      |          | -1.742   | 7.03    | 4.01    | 5.86     | 4.72    |
| 0       | -1.77     |          |           | -1.101   | -0.8625  | 4.97    | 4.14    | 5.11     | 3.67    |
| -1.03   | 0.55      | 0        |           |          |          |         | 4.1     | 3.68     | 6.65    |
| -0.7187 | 2.351     | 0.4212   | 0.1512    | -1.26    | -0.7612  | 3.191   | 4.951   | 3.691    |         |
| -0.39   | 3.33      |          | -0.17     | -0.3112  | 0.2675   | 4.03    | 4.31    | 4.39     | 6.77    |
| -1.576  | 1.544     | 0.2741   | 2.304     |          |          | 4.024   | 2.144   | 1.874    | 4.474   |
| -1.552  | 1.708     | 0.4681   | 2.308     | -2.983   |          | 3.868   | 2.178   | 2.098    | 4.448   |
| 0.1812  | -0.3688   | -0.3588  | 1.921     | -0.33    |          |         | 2.921   | 3.191    |         |
| -0.2944 | -0.5644   | -0.9644  | 1.416     | 0.1044   | 2.243    | 1.666   | 2.836   | 3.156    |         |
| 0.9     | -0.31     | 0        | 1.98      | 3.079    | 2.858    | 3.28    | 2.84    | 3.39     | 4.02    |
| 0.3906  | -0.2694   | -0.5194  | 1.481     | 2.969    | 2.368    | 3.071   | 2.131   | 3.081    | 3.751   |
| -0.2644 | -0.4544   | -1.524   | 1.356     | 2.554    | 3.153    | 3.056   | 3.426   | 3.906    | 3.936   |
| 0.3369  | -0.5431   | 1.457    | 5.437     | 0.04563  | 5.584    | 4.707   | 4.777   | 3.337    | 4.147   |
| 0       | -0.41     | 0.4      | 5.23      | 2.009    | 5.258    | 4.36    | 4.37    | 3.14     | 4.33    |

Table 2

| SW872    | BT-549    | H5578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D    |
|----------|-----------|----------|-----------|----------|----------|---------|---------|----------|---------|
| ARRY8X   | ARRY10X   | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X |
| -0.05875 | -0.5588   | 1.751    | 0.5112    | 0.09     | 3.699    | 3.911   | 5.451   | 5.591    | 3.501   |
| -0.3088  | -0.1388   | 0.05125  | -0.1988   | -1.31    | -1.391   | 1.311   | 2.401   | 3.61     | 3.021   |
| -0.8631  | -1.223    | 0.1769   | 2.267     | -0.08437 | -0.7356  | 2.787   | 2.467   | 2.277    | 2.657   |
| 0.9781   | -0.5019   |          | -0.8719   | -0.8531  |          | 4.098   | 4.978   | 4.548    | 4.458   |
| -1.779   | -0.7688   | 0.6012   | -1.409    | 0.69     | -1.831   | 0.5013  | 2.541   | 4.401    | 4.661   |
| -2.414   | -0.8644   | -0.7844  | -2.194    | 2.244    | -1.927   | 0.9056  | 2.966   | 5.116    | 5.546   |
| -2.489   | -0.7188   | -0.7388  | -1.949    | 1.68     | -1.831   | 1.001   | 3.101   | 5.041    | 5.091   |
| -0.96    | -0.62     | -0.44    | -0.91     | 1.119    | -0.8125  | 0.01    | 2.26    | 3.47     | 4.14    |
| 1.131    |           | 1.391    |           | -0.09    | 0.08875  | -0.2488 | 2.841   | 4.961    | 3.681   |
| 0        | 0.36      | 0.57     | -0.59     | -1.911   | -2.152   | -0.86   | 2.74    | 4.96     | 4.71    |
| -0.1475  | -0.5075   | 0.2525   | 1.902     | 0.00125  | 0.38     | 1.792   | 1.893   | 2.923    | 2.142   |
| -0.4144  | -1.644    | -0.06438 | 1.876     | -0.5756  | -1.077   | 2.386   | 2.426   | 3.836    | 5.306   |
| -0.2759  | -1.036    | -0.5759  | -0.6659   | -0.5672  | 0.1816   | 3.104   | 1.314   | 1.084    | 1.424   |
| -0.92    | 0.04      | 0        | -0.26     | 0.8988   | -1.082   | 2.88    | 1.04    | 1.12     | 1.54    |
| -0.5     | 0         | -0.51    | 0.44      |          | -0.1625  | 2.76    | 2.07    | 2.06     | 2.45    |
|          | -2.019    | -0.6294  | -0.1294   | -1.571   | -1.012   | 0.7806  | 2.791   | 5.071    | 6.081   |
| 0.63     | -0.73     | -1.8     | -2.34     | -1.521   | -1.662   | 0.08    | 1.65    | 4.12     | 4.41    |
| 0.4413   | 0.6512    | 0.6212   | -1.009    | -0.87    | -0.6312  | 0.1013  |         |          | 3.351   |
| 0.4756   | -0.4244   | -0.7644  | 1.206     |          | 2.283    | 0.1156  | 5.926   | 2.576    | 5.576   |
| 0.56     | -1.08     |          | -1.73     |          |          | 3.36    | 3.28    | 2.39     | 3.56    |
| 0.4881   | -0.09188  |          | 0.7981    |          |          | 2.068   | 1.728   | 3.258    | 1.148   |
| -0.17    | 0.79      | -0.99    | -0.62     | -0.6412  | 0.8275   | 2.31    | 2.71    | 1.46     | 1.37    |
| 3.745    | -0.335    | 3.345    | -0.795    | -3.056   |          | 4.215   | 6.145   | 3.375    | 4.715   |
| 4.981    | -0.009375 | 4.561    | -0.2794   |          | -1.062   | 5.871   | 7.091   | 4.741    | 7.311   |
| 5.361    | -0.3888   | 5.171    | -0.3588   | 0.96     | -1.501   | 6.341   | 7.321   | 4.571    | 7.201   |
| 0.29     | 0.58      | -0.24    | -1.77     | -2.441   | -1.092   | 1.64    | 1.03    | 1.04     | 2.01    |
| 0.7712   | 0.8212    | -0.05875 | -0.6688   | -0.42    | -0.5412  | 2.541   | 1.561   | 1.511    | 2.551   |
| 0.86     | 0.83      | -0.24    | -1.82     | -2.561   | -1.942   | 2.73    | 1.98    | 1.57     | 3       |
| -0.1809  | -0.6209   |          | 1.639     | -0.4222  | -2.063   | 3.299   | 1.339   | 2.859    | 1.939   |
| -0.9     | -0.08     | -1.17    | 1.89      | -2.331   | -2.242   | 4.09    | 2.11    | 3.22     | 2.41    |
| -1.28    | -1.21     | -1.05    | -0.13     |          | -1.842   | 3.81    | 2.39    | 1.98     | 1.47    |
| -0.73    | -0.58     | -0.65    | 0         | -2.341   | -1.482   | 4.09    | 2.86    | 2.19     | 2.05    |
| -1.56    | 0         | 1.28     | -1.02     | -1.991   | -3.432   | 2.71    | 2.21    | 1.24     | 0.61    |
| -0.7531  | -1.813    |          | -0.4331   | -0.2344  |          | 4.167   | 3.597   | 2.357    | 3.027   |
| 0        | -0.37     | 0.65     | -1.51     | 0.05875  | -1.602   | 1.31    | 1.7     | 1.78     | 1.57    |
| -2.269   | -1.499    |          | -1.299    | -1.1     |          | 2.751   | 1.831   | 3.471    | 1.221   |
| 0.4312   | -2.399    | 1.191    | -0.9488   | -1.32    | 0.7688   | 1.531   | 1.811   | 1.281    | 2.301   |

Table 2

| SW872   | BT-549   | HS578T   | RPMI-8226 | MOLT4   | NB4+ATRA | SK-BR-3   | BT-474  | MCF7-NCI | T47D     |
|---------|----------|----------|-----------|---------|----------|-----------|---------|----------|----------|
| ARRY8X  | ARRY10X  | ARRY9X   | ARRY16X   | ARRY18X | ARRY17X  | ARRY12X   | ARRY13X | ARRY15X  | ARRY14X  |
| 0.17    | 1.02     | -0.34    | 0.44      | 1.319   | 0.6875   | 1.59      | 1.71    | 1.94     | 0.03     |
| 0.375   | 1.015    | -0.065   | 0.605     |         | 0.8425   | 2.265     | 1.625   | 2.225    | 0.065    |
| -0.665  | -0.835   | 0.095    | -0.095    |         | 0.2325   | -0.705    | 3.115   | 3.765    | 2.195    |
| 0.2     | 0.08     | -0.15    | -0.7      | -2.211  | -1.562   | -1.04     | -1.27   | 0        | 3        |
| -0.6159 | 2.584    | -0.2459  | 1.614     | -1.277  | -2.208   | 0.9041    | 1.854   | 2.394    | 5.864    |
| -1.32   | 0.69     | -0.78    | -0.02     | -0.5412 |          | -0.42     | 0.46    | 0.96     | 3.32     |
| -2.05   | 1.34     | -0.05    | 1.19      | -0.2312 | -0.5825  | 0.2       | 1.93    | -0.62    | 1.15     |
| 0.21    | 1.17     | 0.94     |           | -1.071  | -0.7325  |           | 2.33    | 0.43     |          |
| 0.02    | -0.19    | -0.53    | 0.66      | 0.8588  | 0.0175   | 0.12      |         | -0.12    | 5.37E-10 |
| 0.78    | 0        | 0.89     | 0.74      | -0.8412 | 0.3075   |           | 0.37    | 1.16     | -0.59    |
| -0.42   | 1        | 1.12     | 3.34      |         |          |           |         | 0        | 2.73     |
| 0.74    | -0.11    | 0.21     |           | -0.6212 | -0.1525  | -0.74     | -0.48   | 1.04     | 1.48     |
| -0.4988 | -0.4488  | -1.189   | 1.661     | 0.55    | -1.871   | 0.6813    | -0.7387 | 1.051    | 0.6012   |
| -0.6175 | 0.9825   | -0.3275  | 0.4625    | -0.6188 | 0        | 1.652     | 2.002   | -0.4175  | 0.5825   |
| 1.61    | 0.74     | 0        | -0.48     | -0.9012 | -1.222   | 2.31      | 2.67    | 1.16     | 0.21     |
| -1.249  | -0.2788  | 0.6512   |           |         |          | 2.381     | 0.07125 | 2.791    | -0.1788  |
| 0       | -0.57    | -1.17    | 0.87      | 0.3488  | -0.8125  | 0.22      | -0.02   | 1.36     | 1.86     |
| 0.08125 | -0.9988  | -0.7388  | -0.4688   | -2.33   | -1.811   | -0.4188   | 0.9613  | 1.181    | 1.671    |
| 0.3081  | -0.8819  | -0.8419  | -0.2519   | -0.5431 | -0.8344  |           | 0.5881  | 0.5581   | 1.158    |
| 0.14    | -1.13    | -0.31    | 0.47      | -0.5413 | -1.012   | 0.18      | 0.09    | 0        | 1.27     |
| -0.9844 | 0.5656   | -0.1344  | -0.3844   | -1.116  | -0.6569  | 0.4956    | 1.516   | 1.346    | 1.846    |
| -1.069  | 1.181    |          | -1.239    | -1.85   | 0.1688   |           | 0.9412  | 0.8013   | 0.2712   |
| 1.184   | -0.09594 | 1.194    | -0.1059   | -2.797  | -0.7984  | 0.5241    | 1.944   | -0.7859  | 0.01406  |
| 0.35    | -0.16    | 1.18     | -0.56     |         | -3.082   |           | 1.52    | 0.6      | -0.37    |
| -1.14   | -0.8     | -0.1     | -1.68     | 0.1188  | 0.1875   | -1.63E-11 | 0.48    | 0.99     | 0.49     |
| -0.0475 | -0.6975  | -1.138   | 0.2125    |         | 0        | 0.8225    | 0.3325  | 0.7825   | 0.1325   |
| -0.2859 | 0.6141   | 0.02406  | 1.994     | -0.9272 | -0.6484  | 0.3341    |         | 0.4741   | 0.9841   |
| -0.4588 | 0.5112   |          | 0.06125   | 0.18    | -0.1212  |           | 1.561   | 0.1813   | -0.1188  |
| 0.06125 | -1.299   | -0.04875 | 0.1912    | 0.44    | -0.3712  | -0.2087   | 0.00125 | 0.2013   | 0.8012   |
| -0.6844 | 0.4556   |          | -0.05438  | -0.6056 | -0.6969  | -1.384    | 1.316   | 1.086    | -0.06437 |
| 0.48    | 1.41     | 1.63     | -0.57     | 0.4388  | -0.4625  | -0.63     | -0.14   | -0.81    | 0.29     |
| -0.1638 | -0.1238  | 0.8862   | 3.046     | -0.005  | 3.764    | 0.3962    | 1.446   | 0.6563   | 0.00625  |
| 0.07    | -0.75    | -1       | 1.1       | 1.179   | 1.338    | -1.1      | 0.14    | 0        | -0.25    |
| 0.6906  | 1.221    | 1.961    | -0.03938  | 2.189   | -1.802   |           |         | 0.7506   | 2.341    |
| 0       | 0.43     | -0.7     | 0.29      | -0.1812 | 0.0275   | 0.55      | 0.82    | 0.08     | 0.77     |
| -1.982  | -0.5119  | -1.262   | -0.3219   | -0.9731 | 0.1456   | -0.2019   |         | -1.192   | 0.01812  |
| -0.6175 | -1.328   | -1.218   | 0.8625    | 0.2412  | 0        | -0.0675   | -1.468  | -0.0875  | 1.082    |

Table 2

| SW872   | BT-549  | HS578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3  | BT-474  | MCF7-NCI | T47D     |
|---------|---------|----------|-----------|----------|----------|----------|---------|----------|----------|
| ARRY8X  | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X  | ARRY13X | ARRY15X  | ARRY14X  |
| -0.375  | 0.195   | 0.155    | -0.125    | 1.724    | -1.867   |          | 0.165   | 1.915    | 1.825    |
| -0.1159 | 0.2841  |          | -0.1559   | 0.09281  | -0.8184  | -0.6759  | 0.8641  | 2.064    | 1.924    |
| 0       |         | -0.08    | -1.03     |          | -1.822   | 0.33     | 0.2     | 0.81     | 2.09     |
| 0.9012  |         | -0.3788  | -0.7488   |          | 0.3588   | -0.4288  | 0.8613  | 1.071    | -0.2688  |
| 0.2706  | -1.249  |          | -0.4194   |          | 0.9481   | 1.011    |         | 1.921    | 0.4006   |
| 1.211   | 0.09062 |          | 0.1506    | -1.351   | -0.8919  | -0.02937 | 2.181   | 2.091    | 3.201    |
| -0.1    | 0       | 0.31     | -0.08     | -0.1912  | -0.1625  | -0.03    | 1.19    | 3.09     | 0.14     |
| -0.7    | 0.28    | -0.02    | -0.4      | -0.7213  | -0.1325  | 1.83     | 0.64    | 0        | 1.01     |
| 0.5512  | -1.389  | -0.09875 | -0.9988   | -0.19    | -2.881   | 0.5412   | -1.809  | 0.6713   | 0.6112   |
| -0.9687 | 1.231   | -0.1988  | 3.531     |          | 0.3388   | -1.929   | 2.011   | 3.611    | -1.549   |
| -2.42   | -2.64   | -2.92    | -0.39     | -1.191   | 1.308    | -1.21    | 0       | -1.16    | 0.69     |
| -1.049  | 0.1712  | -0.4288  | -0.6788   | -1.78    | -0.02125 | 0.02125  | -0.8187 | -0.7487  | 0.7412   |
| 0       | -0.97   | -1.29    | 2.44      | -1.571   | -1.022   | 0.67     | 0.43    | 1.04     | 1.21     |
| -0.58   | -1.21   | -1.16    | 0.37      | -0.9812  | -0.6525  | 1.29     | 0.21    | 0.23     | 1.78     |
|         | -2.752  | -1.702   | 0.8381    | -1.463   |          | -2.782   | -1.622  | -0.6919  | -2.382   |
| -0.5875 | -1.048  | -0.8075  | 1.532     | -1.019   | 0        | -1.228   | -1.748  | -0.4175  | -0.7875  |
| -0.7775 | -1.168  | -0.6075  | -0.1975   | -0.01875 | 0        | 1.392    | 0.6025  | -0.3275  | 0.2425   |
| -0.71   | -2.29   | -0.52    | -0.15     | 0.2688   | -0.4325  | 0.57     | 0.8     | 0.58     | 5.37E-10 |
| -1.012  | -1.142  | -1.212   | 1.478     | 0.1869   | -0.05437 | 0.7281   | -0.3319 | 1.248    | 1.308    |
| -1.782  | -0.4819 |          |           | -2.033   | -1.004   | 0.5581   | -0.7819 | 0.5981   | 0.7781   |
| -1.85   | -0.8    | -1.58    | 0.63      | -2.291   | -2.322   | 0.1      | 1.2     | -1.24    | -1.51    |
| -1.45   | -0.37   | -1.33    | 0.63      | -4.041   | -1.952   | 0.86     | 0.71    | -1.24    | -0.7     |
| -0.21   | -0.72   | -1.55    | -0.01     | -0.7913  | 1.248    | -1.23    | 0.76    | 0        | -0.77    |
| 0       | -1.13   | -0.98    | 0.19      | -0.2212  | 0.6575   | -0.05    | -0.35   | 0.04     | 0.61     |
| -0.84   | -1.43   | -1.61    | 2.27      | -1.601   | -1.322   | 1.28     | 0       | -0.6     | 0.9      |
| -0.7909 | -0.2409 | 0.7191   | 0.1591    | -0.3722  | 0.7766   | -0.9609  | -0.5609 | 0.8291   | 0.5691   |
| -1.06   | 0.92    | -0.66    | 1.48      | 1.159    | -0.9025  | 2.99     | 1.23    | 0.99     | -0.28    |
| 1.04    | 1.21    | 0.65     | -1.63     | -1.331   | -2.242   | -0.44    | 1.91    | 2.19     | 0.37     |
| 0.8056  | 1.046   | 0.3356   | -1.654    |          | -2.137   | -0.5544  | 1.786   | 1.816    | 0.3656   |
| -0.06   | 1.46    | 0.52     | -0.98     | -0.3612  | -0.4725  | 0.93     | 0.52    | 0.51     | 0.46     |
| -0.5087 | -0.4988 | -0.02875 | -0.6512   | 0.03     | -0.7412  | 0.5513   | 0.8213  | 0.3613   | 1.231    |
| -0.33   | -0.23   | -0.13    | 0         | 0.6988   | -0.5125  | 0.57     | 0.99    | -0.13    | 1.02     |
| -1.198  | -0.0675 | -0.0875  | -1.018    | 0.00125  | -2.12    | 1.802    | 2.853   | 2.663    | 3.412    |
| -0.05   | -0.05   | 0        | -0.31     | -1.351   | -1.812   | 0.66     | 0.48    | 0.69     |          |
| -0.565  | -0.835  | -0.255   | -0.015    |          | -1.927   | -0.115   | 0.015   | 1.155    | 1.405    |
| -0.32   | -1.33   | 0.48     | 1.01      | 1.009    | 1.268    | 0.42     | 1.39    | -0.66    | 5.37E-10 |
| 0.4112  | 0.2812  |          | 7.241     | 0.03     | -0.1512  | -1.289   | 1.181   | 0.5813   | 0.2112   |

Table 2

| SW872   | BT-549    | HS578T  | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|---------|-----------|---------|-----------|----------|----------|---------|---------|----------|----------|
| ARRY8X  | ARRY10X   | ARRY9X  | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| 0.755   | -1.145    | 1.395   | 0.435     |          |          | -0.435  | 2.075   | 1.825    |          |
| -0.33   | -1.59     | 0.88    | 2.35      |          |          | -0.84   | 0       | 0.4      | -0.39    |
| 0.1     | -0.37     | 1.57    | 3.78      | 4.019    | 0.9875   | 4.32    | 1.66    | -1.46    |          |
| -1.76   | -0.46     |         | 0.6       | 1.149    | 1.148    | 2.6     |         | -0.67    |          |
| -2.6    | -2.31     | -1.53   | 2.93      | 3.958    | 1.797    | 2.37    | 1.4     | -0.4803  | 0.6197   |
| -1.12   | -1.35     | -0.37   | 3.07      | 4.429    | 1.958    | 2.66    | 2.03    | 0        | 0.82     |
| -0.45   | -0.75     | 0.53    | 2.52      | 1.619    | 0.5375   | -0.2    | 0.02    | 1.4      | 0.58     |
|         | -1.039    | -0.2188 | -2.549    |          | 1.249    | 2.231   | 3.261   | -0.1287  | 0.06125  |
| -0.22   | -1.02     | -1.55   | 0.46      | 0.4788   | 0.7975   | 1.85    | 2.71    | -0.33    | 0.4      |
| -0.5094 | -1.259    | -0.8194 |           | -0.6806  | 0.3181   | 1.591   | 1.601   | 0.1406   | 0.8206   |
| 0.2212  | -1.049    | -1.029  | 0.3412    | 1.14     | 1.479    | 2.941   | 3.081   | 0.1613   | 0.7312   |
| -0.9209 |           | -0.7809 | -3.161    | -3.672   | -2.573   | 4.959   | 4.029   | 0.2991   | 1.019    |
| -0.54   | -1.35     | -1.22   | -0.82     | -0.8212  | 0.5175   | 3.93    | 3.19    | 0.7      | 1.37     |
| -0.26   | -0.75     | -0.51   | 0         | -0.3012  | -1.372   | 4.52    | 3.72    | 0.99     | 1.33     |
| 0.06    | -1.15     | -0.65   | -1.41     | -1.491   |          | 5.16    | 4.32    | 1.31     | 1.6      |
| -1.14   | -1.2      | -1.44   | 1.86      | -0.2112  | -0.5925  | 4.38    | 3.7     | 0.61     | 1.17     |
| -0.04   | 0.04      | -0.69   | -0.2      | 1.329    | 1.608    | 3.72    | 3.9     | 0.06     | 0.63     |
| 0.11    | -0.34     |         | 0.44      | 1.609    | 1.718    | 3.68    | 3.54    | -0.11    | 0.74     |
| 0.27    | -3.88     | -1.34   |           | 1.329    | 0.9475   | 1.85    | -0.78   | 0.45     | 0.83     |
| -0.9475 | -1.138    | -0.3475 |           |          | 0        |         | 1.352   | -0.0575  | -0.0675  |
| -0.86   | 0.47      | -0.51   |           | 0.7988   | 0.1775   | 2.2     | 0.09    | 1.03     | -0.2     |
| -0.22   | 0.45      | -0.95   | 1.27      | 0.8488   | -1.372   | -0.58   | 0.25    | -0.02    | 0.82     |
| -0.6919 | 0.4581    | 0.06812 | 0.02812   | 2.517    | -1.244   | -0.8319 | 1.128   | -0.4919  | 0.1681   |
| -0.2619 | -1.042    | -1.112  | -1.352    | 1.467    | 0.04563  | 0.9881  | -0.1919 | -0.1219  | 0.06812  |
| 0       | -0.01     | -0.1    | -0.61     | -0.00125 | -0.5225  | 2.01    | -2.09   | -0.44    | -0.01    |
| -0.35   | -1.44     | -1.89   | -0.21     | 0.3288   | -1.182   | -1.66   | -2.04   | 0.56     | 0.43     |
| -0.4959 | -0.7059   | -0.3659 | 0.7641    | 0.4728   | 1.022    | -0.2259 | 0.3741  | 0.2741   | 2.114    |
| 0.6625  | -0.9175   | -0.6375 | 1.302     | 0.00125  | 0.09     | -0.8775 | 0.8625  | 1.293    | 0.5425   |
| 0.72    | -6.82E-09 |         | 0.56      | -0.02125 | 0.2675   | 0       | -1.11   | 0.63     | -0.57    |
| 0       | 0.77      |         | -0.63     |          | -0.6825  | 0.5     | 0.33    | -0.07    | 5.11     |
| -0.4    | 1.35      | 0.23    | -0.4      | -0.6212  | 1.128    | 0.15    | -1.43   | -0.16    | 1.92     |
| -0.2397 | -0.8797   |         | 0.9503    | -0.1109  | 0.6278   | -0.6997 | -0.3497 | 1.88     | -0.6897  |
| -0.3209 | 0.5891    | 0.4891  | -1.541    | 0.9678   |          | 0.7891  | -0.8009 | -1.391   | -3.061   |
| 1.141   | 1.331     | -0.3388 | 0.6912    | 0.01     | -0.2012  | -1.459  |         | -0.3687  | -0.00875 |
| 0.2813  | 0.5212    | -0.3488 | 1.441     | 0.14     | -1.341   | 0.7013  | 3.141   | 0.1713   | -0.1387  |
| 2.182   | 1.172     | 1.432   | 0.5425    | -0.1288  | 0        | -1.208  | 1.922   | -0.6575  | 0.3325   |
| 1.725   | 0.975     | 0.075   | 0.075     | -0.8362  | -0.1375  | 0.285   | 4.025   | -1.525   | 2.455    |

Table 2

| SW872    | BT-549  | HS578T   | RPMI-8226 | MOLT4    | NB4+ATRA | SK-BR-3 | BT-474  | MCF7-NCI | T47D     |
|----------|---------|----------|-----------|----------|----------|---------|---------|----------|----------|
| ARRY8X   | ARRY10X | ARRY9X   | ARRY16X   | ARRY18X  | ARRY17X  | ARRY12X | ARRY13X | ARRY15X  | ARRY14X  |
| 0.52     |         |          | 2.35      |          | -0.0625  | 2.1     | 2.03    | -1.23    | -0.68    |
| 0.005625 | -0.3644 | 0.2056   | 3.306     |          | 0.1531   |         | 0.2956  | -0.5544  | -0.9844  |
| 2.146    | -0.6144 | -0.2144  | 0.1256    |          | -2.547   | 1.246   | -0.9144 | 0.5656   | 1.066    |
| 0.79     | 0.37    | 0.75     | 3.69      | -1.111   | 0.2075   | 0.45    | -0.32   | 0        | -0.45    |
| 1.24     | 0.96    | 2.63     | 2.31      | -0.6212  | -0.8025  | 0.12    | -0.44   | -0.41    | 5.37E-10 |
| 0.8125   | -0.6575 | 0.2925   | 1.732     | 0.8912   | 0        | -1.138  | 2.332   | 0.7625   | -0.6575  |
| 1.322    | 1.192   | 0.6725   |           | -0.08875 | 0        | -1.408  | 0.1225  | 1.212    | 1.072    |
| 0.9612   | -0.3788 | -0.4888  | -0.2188   | 0.33     | 0.2188   |         | 1.361   | -0.2987  | 2.231    |
| -2.115   | 0.915   | 0.035    | 2.215     | -2.226   | -2.837   | -0.225  | 2.135   | 1.845    | -2.355   |
| 1.119    | -1.091  | -1.071   | -1.331    | -0.9222  | -2.553   | 2.089   | -1.261  | 0.5191   |          |
| 0        | 0.22    | -0.15    | 0.89      | -0.1712  | -0.0125  |         | -0.18   | 0.68     |          |
| 1.174    | 0.04406 | 0.1341   | 1.534     | -1.147   | -1.328   | 0.1441  | 1.384   | -2.076   | 0.3241   |
| 0.3812   | 0.5412  | -0.08875 | 1.701     | 0.45     | 1.309    | 0.1612  | 0.9213  | -0.3587  | -0.1688  |
| -2.245   | -0.055  | 0.435    |           |          |          | 0.055   | 1.505   | -2.485   | 0.285    |
| -1.138   | 0.1019  |          | 2.442     | -2.369   | 0.09938  |         | -0.4481 | -1.568   | -1.128   |



Table 1

|    | YORF<br>AID                 | NAME  |
|----|-----------------------------|---|
|    | WEIGHT                      |   |
| 1  | GF202:96(116F12):384(16L23) | ESTS, MODERATELY SIMILAR TO FK506-BINDING PROTEIN 65KD [M.MUSCULUS] AA496878                                    |
| 2  | GF202:96(114E4):384(16I8)   | CHONDROCYTE-DERIVED EZRIN-LIKE PROTEIN AA486435   |
| 3  | GF200:96(3F2):384(1L4)      | MATRIX METALLOPROTEINASE 9 (GELATINASE B, 92KD GELATINASE, 92KD TYPE IV COLLAGENASE)<br>T72581                  |
| 4  | GF200:96(13B3):384(4C5)     | DUFFY BLOOD GROUP T82477  |
| 5  | GF200:96(23C5):384(6F10)    | HEPARIN COFACTOR II T62086  |
| 6  | GF201:96(68A8):384(24A16)   | RIBOSOMAL PROTEIN S6 KINASE, 90KD, POLYPEPTIDE 3 R95841   |
| 7  | GF200:96(7D1):384(2H2)      | RIBOSOMAL PROTEIN S6 KINASE, 90KD, POLYPEPTIDE 3 H55921   |
| 8  | GF200:96(31D11):384(8H22)   | ESTS, WEAKLY SIMILAR TO RIBOSOMAL PROTEIN S6 KINASE 3 [H.SAPIENS] H67666  |
| 9  | GF201:96(89C5):384(11F10)   | LEUCYL/CYSTINYL AMINOPEPTIDASE H08816   |
| 10 | GF201:96(93C9):384(12F18)   | MEIS (MOUSE) HOMOLOG 2 R59167   |
| 11 | GF201:96(70B12):384(24D23)  | ESTS, WEAKLY SIMILAR TO HIGH AFFINITY IMMUNOGLOBULIN GAMMA FC RECEPTOR I B FORM<br>PRECURSOR [H.SAPIENS] N71796 |
| 12 | GF201:96(70B4):384(24D7)    | 291290 N72228   |
| 13 | GF200:96(8E10):384(2J19)    | TIGHT JUNCTION PROTEIN 2 (ZONA OCCLUDENS 2) W31983  |
| 14 | GF200:96(5H1):384(2O1)      | HISTAMINE N-METHYLTRANSFERASE H53274  |
| 15 | GF201:96(98A1):384(13B1)    | ANTIGEN IDENTIFIED BY MONOCLONAL ANTIBODY MRC OX-2 H23979   |
| 16 | GF201:96(97A4):384(13B8)    | 229901 H70866   |
| 17 | GF200:96(19A7):384(5B14)    | HOMO SAPIENS MYOSIN LIGHT CHAIN KINASE (MLCK) MRNA, COMPLETE CDS AA487215                                       |
| 18 | GF200:96(4G3):384(1N5)      | 547247 AA085318   |
| 19 | GF200:96(5D9):384(2G17)     | NEURONAL PENTRAXIN I H22481   |
| 20 | GF200:96(24F1):384(6L1)     | HOMO SAPIENS MRNA; CDNA DKFZP586A1519 (FROM CLONE DKFZP586A1519) AA452981                                       |
| 21 | GF200:96(13F3):384(4K5)     | COLLAGEN, TYPE XV, ALPHA 1 AA464342   |
| 22 | GF201:96(99H11):384(14O21)  | 79565 T62854  |
| 23 | GF200:96(13C4):384(4E7)     | DECAY ACCELERATING FACTOR FOR COMPLEMENT (CD55, CROMER BLOOD GROUP SYSTEM) R09561                               |
| 24 | GF200:96(7C3):384(2F6)      | CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE (CAM KINASE) II GAMMA T96083  |
| 25 | PEROU:96(6D5):384(20G10)    | ALPHA-1-ANTITRYPSIN N72559  |
| 26 | GF201:96(56E2):384(2I14)    | HUMAN CHROMOSOME 16 BAC CLONE CIT987SK-A-362G6 N75498   |
| 27 | GF201:96(96E4):384(13I8)    | COMPLEMENT COMPONENT 1 INHIBITOR (ANGIOEDEMA, HEREDITARY) AA481438  |
| 28 | GF201:96(85E6):384(10J12)   | P311 PROTEIN H80685   |
| 29 | GF202:96(110A7):384(15A14)  | EXOSTOSES (MULTIPLE)-LIKE 2 AA490078  |
| 30 | GF201:96(65D2):384(23H4)    | 503741 AA131466   |
| 31 | GF201:96(102D12):384(14H23) | 46694 H10192  |
| 32 | GF201:96(57D6):384(21H12)   | ENDOTHELIN RECEPTOR TYPE B N29914   |
| 33 | GF201:96(55A1):384(21A1)    | 768344 AA424996   |

Table 1

|    |                            |  |  |
|----|----------------------------|--|--|
| 34 | GF201:96(66C7):384(23F13)  | 156322 R72618  |  |
| 35 | GF201:96(98B4):384(13D7)   | ENDOTHELIN CONVERTING ENZYME 1 H18427  |  |
| 36 | GF201:96(62H12):384(22P23) | 428485 AA004514  |  |
| 37 | GF201:96(56H11):384(21O22) | HOMO SAPIENS MRNA FOR KIAA0467 PROTEIN, PARTIAL CDS N95780                                     |  |
| 38 | GF200:96(18H11):384(5O22)  | AE-BINDING PROTEIN 1 AA490684  |  |
| 39 | GF200:96(7B11):384(2D22)   | AE-BINDING PROTEIN 1 AA490462  |  |
| 40 | PEROU:96(2F4):384(19K8)    | FIBROBLAST GROWTH FACTOR RECEPTOR 1 AA281189   |  |
| 41 | GF201:96(97B11):384(13D22) | FIBROBLAST GROWTH FACTOR RECEPTOR 1 (FMS-RELATED TYROSINE KINASE 2, PFEIFFER SYNDROME) R54846  |  |
| 42 | GF200:96(30B2):384(8C4)    | ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SX WARNING ENTRY !!!! [H.SAPIENS] AA281189      |  |
| 43 | GF201:96(98F9):384(13L17)  | ESTS, WEAKLY SIMILAR TO KIAA0291 [H.SAPIENS] AA488178  |  |
| 44 | GF200:96(3G8):384(1N16)    | MADS BOX TRANSCRIPTION ENHANCER FACTOR 2, POLYPEPTIDE C (MYOCYTE ENHANCER FACTOR 2C) AA234897  |  |
| 45 | GF200:96(3H6):384(1P12)    | LAMININ, GAMMA 1 (FORMERLY LAMB2) H24650   |  |
| 46 | GF200:96(31G2):384(8N4)    | HOMO SAPIENS MRNA; CDNA DKFZP566B0846 (FROM CLONE DKFZP566B0846) R62780                        |  |
| 47 | GF200:96(3A4):384(1B8)     | PERIPHERAL MYELIN PROTEIN 22 R26960  |  |
| 48 | PEROU:96(10C2):384(18F3)   | DIHYDROPYRIMIDINASE-LIKE 3 (DPVSL3) AI831083   |  |
| 49 | GF201:96(65B7):384(23D14)  | 133864 R28660  |  |
| 50 | GF200:96(29G2):384(8M3)    | 47043 H10721   |  |
| 51 | GF201:96(82E8):384(9J15)   | HOMO SAPIENS BAC CLONE RG041D11 FROM 7Q21 AA032221   |  |
| 52 | GF201:96(89C7):384(11F14)  | HUMAN OVARIAN CANCER DOWNREGULATED MYOSIN HEAVY CHAIN HOMOLOG (DOC1) MRNA, COMPLETE CDS W69790 |  |
| 53 | GF200:96(15E10):384(4I20)  | TISSUE FACTOR PATHWAY INHIBITOR (LIPOPROTEIN-ASSOCIATED COAGULATION INHIBITOR) T47454          |  |
| 54 | GF201:96(97E5):384(13J10)  | ALDEHYDE DEHYDROGENASE 1, SOLUBLE AA664101   |  |
| 55 | GF201:96(64D9):384(23G18)  | HOMO SAPIENS MRNA FOR KIAA0758 PROTEIN, PARTIAL CDS N95226                                     |  |
| 56 | GF200:96(26A2):384(7A4)    | VON WILLEBRAND FACTOR AA487787   |  |
| 57 | GF200:96(2G11):384(1M22)   | PLATELET/ENDOTHELIAL CELL ADHESION MOLECULE (CD31 ANTIGEN) R22412                              |  |
| 58 | GF201:96(89E9):384(11J18)  | MANIC FRINGE (DROSOPHILA) HOMOLOG H22922   |  |
| 59 | GF201:96(88D8):384(11G16)  | INTERCELLULAR ADHESION MOLECULE 2 R21535   |  |
| 60 | GF200:96(28H8):384(7P15)   | 245147 N76361  |  |
| 61 | GF201:96(93A5):384(12B10)  | REGULATOR OF G-PROTEIN SIGNALLING 5 AA668470   |  |
| 62 | GF201:96(86D9):384(10H17)  | TEK TYROSINE KINASE, ENDOTHELIAL (VENOUS MALFORMATIONS, MULTIPLE CUTANEOUS AND MUCOSAL) H02848 |  |
| 63 | GF200:96(29F5):384(8K9)    | LIM BINDING DOMAIN 2 H74106  |  |
| 64 | GF200:96(24E2):384(6J3)    | KINASE SCAFFOLD PROTEIN GRAVIN AA478542  |  |
| 65 | GF201:96(82E1):384(9J1)    | 359722 AA011182  |  |
| 66 | GF200:96(15E1):384(4J2)    | TYROSINE KINASE WITH IMMUNOGLOBULIN AND EPIDERMAL GROWTH FACTOR HOMOLOGY DOMAINS AA432062      |  |

Table 1

|     |                            |   |
|-----|----------------------------|---|
| 67  | GF200:96(14B5):384(4C10)   | CD34 ANTIGEN AA434483   |
| 68  | GF200:96(12A12):384(3B23)  | HUMAN DNA SEQUENCE FROM CLONE 1033B10 ON CHROMOSOME 6P21.2-21.31. CONTAINS THE BING5 GENE, EXONS 11 TO 15 OF THE BING4 GENE, THE GENE FOR GALT3 (BETA3-GALACTOSYLTRANSFERASE), THE RPS18 (40S RIBOSOMAL PROTEIN S18) GENE, THE SACM2 N78611 |
| 69  | GF200:96(25F12):384(7K23)  | 69672 T53626  |
| 70  | GF200:96(4A2):384(1B3)     | HOMO SAPIENS KDR/FLK-1 PROTEIN MRNA, COMPLETE CDS AA026831  |
| 71  | GF200:96(3H7):384(1P14)    | LAMININ, ALPHA 4 R43734   |
| 72  | GF202:96(109D2):384(15G3)  | INTEGRIN BETA 3 {ALTERNATIVELY SPLICED, CLONE BETA 3C} [HUMAN, ERYTHROLEUKEMIA CELL HEL, MRNA PARTIAL, 409 NT] AA037229   |
| 73  | GF201:96(91F10):384(12K19) | 429349 AA007419   |
| 74  | PEROU:96(7E6):384(20I12)   | MITOGEN INDUCIBLE 2 H29253  |
| 75  | GF201:96(91F4):384(12K7)   | TRANSCRIPTION FACTOR 4 AA669136   |
| 76  | GF201:96(83C5):384(10E9)   | KIAA0476 GENE PRODUCT W81135  |
| 77  | GF200:96(5E5):384(2I9)     | DISABLED (DROSOPHILA) HOMOLOG 2 (MITOGEN-RESPONSIVE PHOSPHOPROTEIN) H54686  |
| 78  | GF200:96(13E10):384(4I19)  | ESTS, MODERATELY SIMILAR TO !!! ALU SUBFAMILY SX WARNING ENTRY !!! [H.SAPIENS] N73030   |
| 79  | GF200:96(13F9):384(4K17)   | COAGULATION FACTOR II (THROMBIN) RECEPTOR AA456376  |
| 80  | GF200:96(13G9):384(4M17)   | CATHEPSIN E H94487  |
| 81  | GF201:96(55D7):384(21G13)  | ESTS, WEAKLY SIMILAR TO EPIDERMAL GROWTH FACTOR RECEPTOR KINASE SUBSTRATE EPS8 [H.SAPIENS] H73479   |
| 82  | GF200:96(31B1):384(8D2)    | BIGLYCAN N51018   |
| 83  | GF200:96(14C7):384(4E14)   | BIGLYCAN R77226   |
| 84  | GF201:96(95C12):384(13E23) | GLYCOPROTEIN A REPETITIONS PREDOMINANT AA122287   |
| 85  | GF201:96(57H12):384(21P24) | CADHERIN 11 (OB-CADHERIN, OSTEOBLAST) AA136983  |
| 86  | GF200:96(13H10):384(4O19)  | CADHERIN 11 (OB-CADHERIN, OSTEOBLAST) H96738  |
| 87  | GF201:96(87H8):384(11O15)  | MICROFIBRILLAR-ASSOCIATED PROTEIN 2 N67487  |
| 88  | GF200:96(29G5):384(8M9)    | TUMOR SUSCEPTIBILITY GENE 101 R02529  |
| 89  | GF200:96(11C2):384(3F4)    | DISCOIDIN DOMAIN RECEPTOR FAMILY, MEMBER 2 AA243828   |
| 90  | GF202:96(109C9):384(15E17) | MICROTUBULE-ASSOCIATED PROTEIN 1B AA219045  |
| 91  | PEROU:96(2H9):384(19O18)   | THROMBOSPONDIN 1 AA007557   |
| 92  | GF200:96(1E8):384(11I5)    | THROMBOSPONDIN 1 AA464630   |
| 93  | GF201:96(58F3):384(21I5)   | NEUROPILIN 2 N26125   |
| 94  | PEROU:96(10B7):384(18D13)  | LATENT TRANSFORMING GROWTH FACTOR BETA BINDING PROTEIN 2 W52204   |
| 95  | GF202:96(109B8):384(15C15) | INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 7 T53298   |
| 96  | PEROU:96(3B6):384(19D12)   | VIMENTIN AA147847   |
| 97  | GF200:96(15A11):384(4B22)  | VIMENTIN AA487812   |
| 98  | PEROU:96(9D12):384(18H24)  | SPARC/OSTEONECTIN AA031595  |
| 99  | PEROU:96(7A6):384(20B12)   | SPARC N95151  |
| 100 | PEROU:96(9E7):384(18J14)   | SPARC/OSTEONECTIN AA045463  |

Table 1

|     |                            |   |
|-----|----------------------------|---|
| 101 | GF201:96(86G9):384(10N17)  | SECRETED PROTEIN, ACIDIC, CYSTEINE-RICH (OSTEONECTIN) H95960  |
| 102 | PEROU:96(8D9):384(20H17)   | COLLAGEN, TYPE V, ALPHA 2 AA004204  |
| 103 | PEROU:96(7F4):384(20L8)    | CD46/TROPHOBLAST-LYMPHOCYTE CROSS-REACTIVE ANTIGEN AA678559   |
| 104 | PEROU:96(8F11):384(20L21)  | FIBRILLIN 1 (MARFAN SYNDROME) AA056415  |
| 105 | GF200:96(12G8):384(3N15)   | FIBRILLIN 1 (MARFAN SYNDROME) AA418811  |
| 106 | GF201:96(90E8):384(11J15)  | LYSL OXIDASE-LIKE 2 AA676458  |
| 107 | GF200:96(25D8):384(7G15)   | COLLAGEN-BINDING PROTEIN 2 (COLLIGEN 2) R71440  |
| 108 | PEROU:96(3B4):384(19D8)    | 937223 AA181288   |
| 109 | GF201:96(96E7):384(13I14)  | COLLAGEN, TYPE IV, ALPHA 2 AA430540   |
| 110 | PEROU:96(8A5):384(20B9)    | COLLAGEN, TYPE IV, ALPHA 1 R78226   |
| 111 | GF201:96(90E8):384(13I16)  | COLLAGEN, TYPE IV, ALPHA 1 AA150402   |
| 112 | PEROU:96(2D6):384(19G12)   | 1126447 AA679959  |
| 113 | GF200:96(17F11):384(5K21)  | LAMININ, BETA 1 AA446251  |
| 114 | GF200:96(13F2):384(4K3)    | COLLAGEN, TYPE XVIII, ALPHA 1 W07798  |
| 115 | PEROU:96(8F4):384(20L7)    | CONNECTIVE TISSUE GROWTH FACTOR AA044993  |
| 116 | GF200:96(15D3):384(4H6)    | TRANSCRIPTION ELONGATION FACTOR B (SIII), POLYPEPTIDE 3 (110KD, ELONGIN A) AA133129                             |
| 117 | GF200:96(25C11):384(7E21)  | CONNECTIVE TISSUE GROWTH FACTOR AA598794  |
| 118 | GF200:96(23E2):384(6J4)    | 754358 AA436142   |
| 119 | GF202:96(112C8):384(15F15) | KIAA0569 GENE PRODUCT N45100  |
| 120 | GF200:96(5F6):384(2K11)    | ESTS, HIGHLY SIMILAR TO NIL-2-A ZINC FINGER PROTEIN [H.SAPIENS] H46553  |
| 121 | GF200:96(30F7):384(8K14)   | ESTS, HIGHLY SIMILAR TO NEURITIN [R.NORVEGICUS] R66101  |
| 122 | GF201:96(99B3):384(14C5)   | FMS-RELATED TYROSINE KINASE 1 (VASCULAR ENDOTHELIAL GROWTH FACTOR/VASCULAR PERMEABILITY FACTOR RECEPTOR) T52674 |
| 123 | GF200:96(29H1):384(801)    | HOMO SAPIENS CLONE 23887 MRNA SEQUENCE R98695   |
| 124 | GF200:96(4E9):384(1J17)    | HUMAN TRANSGLUTAMINASE MRNA, 3' UNTRANSLATED REGION R97066  |
| 125 | GF201:96(88G2):384(11M4)   | 590692 AA156324   |
| 126 | GF201:96(98H5):384(13P9)   | FC FRAGMENT OF IGG, RECEPTOR, TRANSPORTER, ALPHA T53509   |
| 127 | GF201:96(91H6):384(12O11)  | FC FRAGMENT OF IGG, RECEPTOR, TRANSPORTER, ALPHA AA430668   |
| 128 | GF200:96(7B5):384(2D10)    | KIAA0022 GENE PRODUCT H60460  |
| 129 | GF200:96(11A9):384(3B18)   | HOMEO BOX D3 AA411244   |
| 130 | GF200:96(19H10):384(5P20)  | GROWTH FACTOR RECEPTOR-BOUND PROTEIN 10 AA136336  |
| 131 | GF200:96(31C4):384(8F8)    | 129610 R16604   |
| 132 | GF201:96(97B6):384(13D12)  | BONE MORPHOGENETIC PROTEIN 4 AA463225   |
| 133 | GF201:96(6SD3):384(23H6)   | 301995 N89738   |
| 134 | GF201:96(94E8):384(12I15)  | HUMAN HOX2.2 GENE FOR A HOMEOBOX PROTEIN AA610066   |
| 135 | GF200:96(10H1):384(3O2)    | HOMEO BOX B5 H02340   |
| 136 | PEROU:96(10C4):384(18F7)   | H FACTOR (COMPLEMENT)-LIKE 1 W88788   |
| 137 | GF200:96(14A2):384(4A4)    | 84750 T74567  |
| 138 | GF200:96(4F8):384(11I5)    | RETINOIC ACID RECEPTOR RESPONDER (TAZAROTENE INDUCED) 2 AA481944  |

Table 1

|     |                             |   |
|-----|-----------------------------|---|
| 139 | GF201:96(101F10):384(14L20) | HOMO SAPIENS MRNA FROM CHROMOSOME 5Q31-33 REGION T57920   |
| 140 | GF201:96(55A2):384(21A3)    | PLATELET-DERIVED GROWTH FACTOR RECEPTOR, ALPHA POLYPEPTIDE H23235                                     |
| 141 | GF200:96(26A11):384(7A22)   | THROMBOSPONDIN 2 H38240   |
| 142 | GF200:96(1F4):384(1K7)      | HUMAN TUMOR NECROSIS FACTOR-INDUCIBLE (TSG-6) MRNA FRAGMENT, ADHESION RECEPTOR CD44                   |
| 143 | GF200:96(13F4):384(4K7)     | PUTATIVE CDS W93163   |
| 144 | GF200:96(1A10):384(1A19)    | 134783 R31701   |
| 145 | GF200:96(21E11):384(6I21)   | WINGLESS-TYPE MMTV INTEGRATION SITE FAMILY MEMBER 2 T9653   |
|     |                             | SOLUTE CARRIER FAMILY 16 (MONOCARBOXYLIC ACID TRANSPORTERS), MEMBER 2 (PUTATIVE TRANSPORTER) AA425612 |
| 146 | GF201:96(70E8):384(24J15)   | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 4589520) [H.SAPIENS] AA043878                           |
| 147 | GF201:96(89E3):384(11J6)    | MICROFIBRIL-ASSOCIATED GLYCOPROTEIN-2 AA056013  |
| 148 | GF200:96(29C1):384(8E1)     | 197474 H52098   |
| 149 | GF202:96(159D2):384(17H4)   | 786609 AA478481   |
| 150 | GF201:96(90G11):384(11N21)  | FIBROBLAST ACTIVATION PROTEIN, ALPHA AA405569   |
| 151 | PEROU:96(6E9):384(20I18)    | LARGE FIBROBLAST PROTEOGLYCAN PRECURSOR AA056022  |
| 152 | PEROU:96(10C3):384(18F5)    | LARGE FIBROBLAST PROTEOGLYCAN PRECURSOR AA056022  |
| 153 | PEROU:96(10B9):384(18D17)   | CHONDROITIN SULFATE PROTEOGLYCAN CORE PROTEIN AA722599  |
| 154 | PEROU:96(10B4):384(18D7)    | PLASMINOGEN ACTIVATOR, UROKINASE RECEPTOR AA147962  |
| 155 | GF200:96(24F2):384(6L3)     | FIBRONECTIN 1 R62612  |
| 156 | GF200:96(12G2):384(3N3)     | FIBRONECTIN 1 R62612  |
| 157 | GF200:96(25H1):384(7O1)     | HUMAN ISOLATE JU50 MUC18 GLYCOPROTEIN MRNA (3' VARIANT), COMPLETE CDS AA497002                        |
| 158 | GF201:96(58A11):384(21B21)  | H.SAPIENS MRNA FOR INHIBIN BETA(A) SUBUNIT N27159   |
| 159 | GF201:96(57A2):384(21B4)    | HUMAN MRNA FOR FIBRONECTIN (FN PRECURSOR) N26285  |
| 160 | GF201:96(85D11):384(10H22)  | ESTS, MODERATELY SIMILAR TO IIII ALU SUBFAMILY SQ WARNING ENTRY IIII [H.SAPIENS] H77494               |
| 161 | GF200:96(10A2):384(3A4)     | 244703 N52533   |
| 162 | GF200:96(5D1):384(2G1)      | HOMO SAPIENS MRNA FOR NIDOGEN-2 AA479199  |
| 163 | GF201:96(88F8):384(11K16)   | LIM DOMAIN ONLY 7 H22826  |
| 164 | GF201:96(81A6):384(9B12)    | LIM DOMAIN ONLY 7 AA005112  |
| 165 | GF200:96(3G11):384(1N22)    | LUMICAN AA453712  |
| 166 | GF201:96(67C12):384(24E23)  | 782701 AA447610   |
| 167 | GF201:96(88C1):384(11E2)    | LAMININ, ALPHA 2 (MEROSIN, CONGENITAL MUSCULAR DYSTROPHY) AA034939                                    |
| 168 | GF201:96(96C1):384(13E2)    | DERMATOPONTIN R48303  |
| 169 | GF200:96(23F9):384(6L18)    | HEVIN AA490694  |
| 170 | GF200:96(26G11):384(7M22)   | SECRETED FRIZZLED-RELATED PROTEIN 4 AA486838  |
| 171 | GF200:96(14B7):384(4C14)    | CATHEPSIN K (PYCNOXYSTOSIS) R01515  |
| 172 | GF201:96(92H4):384(12O8)    | OSTEOMODULIN N32201   |
| 173 | GF201:96(101H5):384(14P10)  | 78921 T60482  |
| 174 | PEROU:96(1F6):384(19K11)    | PLATELET-DERIVED GROWTH FACTOR RECEPTOR-LIKE AA461197   |
| 175 | GF200:96(6A2):384(2A4)      | PLATELET-DERIVED GROWTH FACTOR RECEPTOR-LIKE AA455210   |

Table 1

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| 176 | GF202:96(116812):384(16D23) | MUSCULIN (ACTIVATED B-CELL FACTOR-1) AA470081   |
| 177 | GF200:96(13F5):384(4K9)     | COLLAGEN, TYPE V, ALPHA 1 R75635  |
| 178 | PEROU:96(8E6):384(20J11)    | 471748 AA035018   |
| 179 | PEROU:96(8E9):384(20J17)    | SMOOTH MUSCLE ACTIN, ALPHA2 AA040169  |
| 180 | PEROU:96(8C12):384(20F23)   | TRANSGLUTININ/SM22 AA010664   |
| 181 | PEROU:96(9C9):384(18F18)    | SMOOTH MUSCLE PROTEIN 22-ALPHA AA010664   |
| 182 | PEROU:96(8E7):384(20J13)    | LUMICAN AA035657  |
| 183 | PEROU:96(10C11):384(18F21)  | FIBULIN 1 AA614680  |
| 184 | GF200:96(10G12):384(3M24)   | COLLAGEN, TYPE VI, ALPHA 3 R62603   |
| 185 | GF200:96(22G4):384(6M8)     | HOMO SAPIENS OSF-2 MRNA FOR OSTEOBLAST SPECIFIC FACTOR 2 (OSF-2P1), COMPLETE CDS<br>AA598653      |
| 186 | GF200:96(14F10):384(4K20)   | COLLAGEN, TYPE III, ALPHA 1 (EHLERS-DANLOS SYNDROME TYPE IV, AUTOSOMAL DOMINANT) T98612           |
| 187 | PEROU:96(10C5):384(18F9)    | COLLAGEN, TYPE I, ALPHA 1 W90360  |
| 188 | GF200:96(25D11):384(7G21)   | COLLAGEN, TYPE I, ALPHA 2 AA490172  |
| 189 | PEROU:96(8F6):384(20L11)    | COLLAGEN, TYPE III, ALPHA 1 (EHLERS-DANLOS SYNDROME TYPE IV, AUTOSOMAL DOMINANT)<br>AA044829      |
| 190 | GF200:96(24F7):384(6L13)    | COLLAGEN, TYPE III, ALPHA 1 (EHLERS-DANLOS SYNDROME TYPE IV, AUTOSOMAL DOMINANT) T98612           |
| 191 | GF201:96(63A6):384(23A11)   | COLLAGEN, TYPE I, ALPHA 2 W93067  |
| 192 | GF201:96(86E1):384(10J1)    | THY-1 CELL SURFACE ANTIGEN AA496283   |
| 193 | GF201:96(92D9):384(12G18)   | HOMO SAPIENS, ALPHA-1 (VI) COLLAGEN AA046525  |
| 194 | PEROU:96(8F9):384(20L17)    | COLLAGEN, TYPE VI, ALPHA 1 AA047209   |
| 195 | PEROU:96(10D9):384(18H17)   | COLLAGEN, TYPE VI, ALPHA 1 AA047209   |
| 196 | GF201:96(91D10):384(12G19)  | HUMAN ALPHA-2 COLLAGEN TYPE VI MRNA, 3' END AA633747  |
| 197 | GF201:96(55A6):384(21A11)   | HUMAN METHIONINE SYNTHASE MRNA, COMPLETE CDS AA233650   |
| 198 | GF201:96(55B6):384(21C11)   | 265694 N25353   |
| 199 | GF201:96(96E1):384(13I2)    | COMPLEMENT COMPONENT 1, R SUBCOMPONENT T69603   |
| 200 | GF200:96(25D5):384(7G9)     | COMPLEMENT COMPONENT 1, S SUBCOMPONENT T62048   |
| 201 | PEROU:96(9D6):384(18H12)    | COMPLEMENT COMPONENT 1, S SUBCOMPONENT AA055520   |
| 202 | PEROU:96(10A4):384(18B7)    | INTERLEUKIN-1 RECEPTOR, TYPE I PRECURSOR R56687   |
| 203 | GF200:96(4C6):384(1F11)     | 810213 AA464525   |
| 204 | GF201:96(64C1):384(23E2)    | INTERFERON, ALPHA-INDUCIBLE PROTEIN (CLONE IFI-6-16) AA460304                                     |
| 205 | GF201:96(57F10):384(21L20)  | LYSYL OXIDASE W60414  |
| 206 | PEROU:96(9D2):384(18H4)     | HUMAN LYSYL OXIDASE (LOX) GENE EXON 7 AA037732  |
| 207 | GF201:96(84A10):384(10A20)  | 137984 R63085   |
| 208 | GF201:96(62F6):384(22L11)   | 120678 T95650   |
| 209 | PEROU:96(2F2):384(19K4)     | TISSUE INHIBITOR OF METALLOPROTEINASE 3 (SORSBY FUNDUS DYSTROPHY,<br>PSEUDOINFLAMMATORY) AA445923 |

Table 1

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| 210 | GF201:96(86D1):384(10H1)   | TISSUE INHIBITOR OF METALLOPROTEINASE 3 (SORSBY FUNDUS DYSTROPHY, PSEUDOINFLAMMATORY) AA099153  |
| 211 | GF201:96(95H6):384(13O11)  | FIBULIN 1 AA134871  |
| 212 | GF200:96(2G12):384(1M24)   | PLATELET-DERIVED GROWTH FACTOR RECEPTOR, BETA POLYPEPTIDE R56211  |
| 213 | GF201:96(66F1):384(23L1)   | ESTS, WEAKLY SIMILAR TO MACROPHAGE LECTIN 2 [H.SAPIENS] N53421  |
| 214 | GF200:96(1A7):384(1A13)    | DOWN SYNDROME CANDIDATE REGION 1-LIKE 1 H19439  |
| 215 | GF200:96(7F8):384(2L16)    | HUMAN EXTRACELLULAR MATRIX PROTEIN 1 MRNA, ALTERNATIVE SPICE VARIANT, COMPLETE CDS N79484   |
| 216 | GF201:96(101F8):384(14L16) | 80643 T57803  |
| 217 | GF201:96(86G3):384(10N5)   | SECRETORY GRANULE, NEUROENDOCRINE PROTEIN 1 (7B2 PROTEIN) AA670429  |
| 218 | GF201:96(96H4):384(13O8)   | CADHERIN 2, N-CADHERIN (NEURONAL) W49619  |
| 219 | GF201:96(64E10):384(23I20) | 428048 AA002061   |
| 220 | GF200:96(12B7):384(3D13)   | GROWTH ASSOCIATED PROTEIN 43 H05445   |
| 221 | GF200:96(5F1):384(2K1)     | MELAN-A N26562  |
| 222 | GF200:96(12A5):384(3B9)    | MANNOSIDASE, ALPHA, CLASS 1A, MEMBER 1 T85698   |
| 223 | GF200:96(3D12):384(1H24)   | MYOSIN VA (HEAVY POLYPEPTIDE 12, MYOXIN) AA025850   |
| 224 | GF201:96(79C10):384(9E19)  | ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SQ WARNING ENTRY !!!! [H.SAPIENS] N67810   |
| 225 | GF200:96(1E7):384(11I3)    | THYROXIN-BINDING GLOBULIN T64901  |
| 226 | GF200:96(24C11):384(6F21)  | GLUTATHIONE PEROXIDASE 2 (GASTROINTESTINAL) AA135289  |
| 227 | GF201:96(87B5):384(11C9)   | PROTEIN KINASE C, MU N53380   |
| 228 | GF201:96(83F2):384(10K3)   | HOMO SAPIENS MRNA; CDNA DKFZP434N103 (FROM CLONE DKFZP434N103) AA431753   |
| 229 | GF201:96(101H1):384(14P2)  | HOMO SAPIENS CLONE 24421 MRNA SEQUENCE T60063   |
| 230 | GF200:96(26F3):384(7K6)    | PHOSPHATIDIC ACID PHOSPHATASE TYPE 2B T72119  |
| 231 | GF200:96(21C4):384(6E7)    | PHOSPHATIDIC ACID PHOSPHATASE TYPE 2B T71976  |
| 232 | GF201:96(94F4):384(12L7)   | ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS] AA130874  |
| 233 | GF201:96(58E11):384(21J21) | AMYLOID BETA (A4) PRECURSOR PROTEIN (PROTEASE NEXIN-II, ALZHEIMER DISEASE) W42849   |
| 234 | GF201:96(86H11):384(10P21) | RAS HOMOLOG GENE FAMILY, MEMBER E W86282  |
| 235 | GF200:96(16B5):384(4D9)    | 784593 AA443302   |
| 236 | GF201:96(63G6):384(23M11)  | ESTS, WEAKLY SIMILAR TO IGE RECEPTOR BETA SUBUNIT [H.SAPIENS] AA128162  |
| 237 | GF201:96(55G4):384(21M7)   | C3H-TYPE ZINC FINGER PROTEIN; SIMILAR TO D. MELANOGASTER MUSCLEBLIND B PROTEIN W16832   |
| 238 | GF201:96(58C7):384(21F13)  | FIBRINOGEN, A ALPHA POLYPEPTIDE AA011414  |
| 239 | GF201:96(70C5):384(24F9)   | L1 CELL ADHESION MOLECULE (HYDROCEPHALUS, STENOSIS OF AQUEDUCT OF SYLVIVUS 1, MASA (MENTAL RETARDATION, APHASIA, SHUFFLING GAIT AND ADDUCTED THUMBS) SYNDROME, SPASTIC PARAPLEGIA 1) N27145 |
| 240 | GF200:96(16B12):384(4D23)  | RADIXIN AA477165  |
| 241 | GF201:96(97B4):384(13D8)   | BRANCHED CHAIN KETO ACID DEHYDROGENASE E1, ALPHA POLYPEPTIDE (MAPLE SYRUP URINE DISEASE) AA477298   |
| 242 | GF200:96(14F1):384(4K2)    | HUMAN BINDING PROTEIN MRNA, 3'END H89664  |

Table 1

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| 243 | GF201:96(85F7):384(10L14)  | 305809 N90051   |  |
| 244 | GF200:96(12E9):384(3J17)   | GELSOLIN (AMYLOIDOSIS, FINNISH TYPE) H72027   |  |
| 245 | GF201:96(81E12):384(9J24)  | 259996 N32611   |  |
| 246 | GF201:96(89A1):384(11B2)   | SER-THR PROTEIN KINASE RELATED TO THE MYOTONIC DYSTROPHY PROTEIN KINASE N35241                          |  |
| 247 | GF202:96(112D8):384(15H15) | ESTS, MODERATELY SIMILAR TO !!! ALU SUBFAMILY SP WARNING ENTRY !!!! [H.SAPIENS] AA181868                |  |
| 248 | GF200:96(16B2):384(4D3)    | RIBONUCLEASE, RNASE A FAMILY, 1 (PANCREATIC) AA487797   |  |
| 249 | GF200:96(7D12):384(2H24)   | NEUREGULIN 1 R72075   |  |
| 250 | GF201:96(87H1):384(11O1)   | MONOAMINE OXIDASE B AA682423  |  |
| 251 | GF200:96(18H9):384(5O18)   | NUCLEAR FACTOR 1/B W87611   |  |
| 252 | GF200:96(15F8):384(4L16)   | INTERLEUKIN 1 RECEPTOR-LIKE 1 AA128153  |  |
| 253 | GF200:96(5C1):384(2E1)     | SOLUTE CARRIER FAMILY 21 (PROSTAGLANDIN TRANSPORTER), MEMBER 2 AA037014                                 |  |
| 254 | GF201:96(88E7):384(11I14)  | INHIBITOR OF DNA BINDING 3, DOMINANT NEGATIVE HELIX-LOOP-HELIX PROTEIN AA482119                         |  |
| 255 | GF200:96(2A9):384(1A18)    | SELECTIN E (ENDOTHELIAL ADHESION MOLECULE 1) H39560   |  |
| 256 | GF200:96(27B1):384(7D2)    | FLAVIN CONTAINING MONOOXYGENASE 3 H71847  |  |
| 257 | GF202:96(110B7):384(15C14) | ENDOTHELIAL CELL-SPECIFIC W46577  |  |
| 258 | GF201:96(93G3):384(12N6)   | ANGIOPOIETIN 2 AA125872   |  |
| 259 | PEROU:96(2C4):384(19E8)    | MAX-INTERACTING PROTEIN 1 AA179689  |  |
| 260 | GF200:96(3F4):384(11L8)    | MATRIX METALLOPROTEINASE 1 (INTERSTITIAL COLLAGENASE) AA143201  |  |
| 261 | GF200:96(23G1):384(6N2)    | H.SAPIENS MRNA FOR GLUTAMINE CYCLOTRANSFERASE AA282134  |  |
| 262 | GF200:96(6C4):384(2E8)     | NEURONAL CELL ADHESION MOLECULE R25521  |  |
| 263 | GF201:96(69A10):384(24B20) | 213850 H72368   |  |
| 264 | GF200:96(6E1):384(2I2)     | WASP FAMILY VERPROLIN-HOMOLOGOUS PROTEIN N59851   |  |
| 265 | GF200:96(10A11):384(3A22)  | THYMOSIN, BETA, IDENTIFIED IN NEUROBLASTOMA CELLS N91887  |  |
| 266 | GF200:96(2E8):384(11I6)    | PTK7 PROTEIN TYROSINE KINASE 7 AA453789   |  |
| 267 | GF200:96(15G12):384(4N24)  | SIALLYLTRANSFERASE 8 (ALPHA-N-ACETYLNEURAMINATE: ALPHA-2,8-SIALLYLTRANSFERASE, GD3 SYNTHASE) A AA169311 |  |
| 268 | GF200:96(26F2):384(7K4)    | HUMAN CLONE 23826 MRNA SEQUENCE AA173746  |  |
| 269 | GF200:96(10H9):384(3O18)   | HEXABRACHION (TENASCIN C, CYTOTACTIN) T77595  |  |
| 270 | GF201:96(89D9):384(11H18)  | CANICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER AA429895  |  |
| 271 | GF201:96(79B7):384(9C13)   | CAG REPEAT CONTAINING (GLIA-DERIVED NEXIN I ALPHA) R95691   |  |
| 272 | GF200:96(32D11):384(8H21)  | CAG REPEAT CONTAINING (GLIA-DERIVED NEXIN I ALPHA) N59721   |  |
| 273 | GF200:96(4G6):384(1N11)    | SMALL PROLINE-RICH PROTEIN 2C AA399674  |  |
| 274 | GF201:96(89A2):384(11B4)   | RIBOSOMAL PROTEIN L5 AA027277   |  |
| 275 | GF201:96(89E4):384(11J8)   | ESTS, MODERATELY SIMILAR TO ALTERNATIVELY SPLICED PRODUCT USING EXON 13A [H.SAPIENS] AA157955           |  |
| 276 | GF200:96(28H5):384(7P9)    | ESTS, HIGHLY SIMILAR TO (DEFINE NOT AVAILABLE 4929675) [H.SAPIENS] R01796                               |  |
| 277 | GF201:96(57C4):384(21F8)   | PROSTATE DIFFERENTIATION FACTOR N26311  |  |
| 278 | PEROU:96(6C9):384(20E18)   | CYCLIN-DEPENDENT KINASE INHIBITOR 1A (P21, CIP1) N23941   |  |
| 279 | GF200:96(2F1):384(1K2)     | PROTEIN TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1 R06605  |  |



Table 1

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| 280 | GF200:96(26H4):384(708)     | QUINONE OXIDOREDUCTASE HOMOLOG AA668595   |
| 281 | GF201:96(100D10):384(14G20) | 45629 H08730  |
| 282 | GF200:96(21A3):384(6A5)     | SULFOTRANSFERASE, ESTROGEN-PREFERRING AA449459  |
| 283 | GF200:96(11E11):384(3J22)   | PIRIN H69334  |
| 284 | GF200:96(18G2):384(5M4)     | HUMAN PROTEINASE ACTIVATED RECEPTOR-2 MRNA, 3'UTR AA454652  |
| 285 | GF200:96(4A12):384(1B23)    | INTEGRIN, BETA 8 W56709   |
| 286 | PEROU:96(3B9):384(19D18)    | INTEGRIN, ALPHA 2 (CD49B, ALPHA 2 SUBUNIT OF VLA-2 RECEPTOR) AA069096   |
| 287 | GF200:96(4B4):384(1D7)      | INTEGRIN, ALPHA 2 (CD49B, ALPHA 2 SUBUNIT OF VLA-2 RECEPTOR) AA463610   |
| 288 | GF201:96(79B1):384(9C1)     | 271441 N34799   |
| 289 | PEROU:96(1C11):384(19E21)   | INTEGRIN, BETA 8 W56709   |
| 290 | PEROU:96(6F2):384(20K4)     | SECRETED FRIZZLED-RELATED PROTEIN 1 AA002243  |
| 291 | GF200:96(25C8):384(7E15)    | CRYSTALLIN, ALPHA B AA504943  |
| 292 | GF201:96(55A3):384(21A5)    | PROTEIN 5 (ALPHA) T74192  |
| 293 | GF201:96(59C7):384(22E13)   | METHYL-CPG BINDING DOMAIN PROTEIN 1 AA459922  |
| 294 | GF200:96(5F8):384(2K15)     | HOMO SAPIENS MRNA; CDNA DKFZP564L176 (FROM CLONE DKFZP564L176) N74741   |
| 295 | PEROU:96(2E1):384(19I2)     | JUN ACTIVATION DOMAIN BINDING PROTEIN AA293362  |
| 296 | GF200:96(26F6):384(7K12)    | JUN ACTIVATION DOMAIN BINDING PROTEIN W96134  |
| 297 | GF201:96(85F4):384(10L8)    | HUMAN PROTO-ONCOGENE BCD ORF1 AND ORF2 MRNA, COMPLETE CDS AA013481  |
| 298 | GF201:96(81C11):384(9F22)   | 502396 AA156946   |
| 299 | GF201:96(9566):384(13M11)   | GRO1 ONCOGENE (MELANOMA GROWTH STIMULATING ACTIVITY, ALPHA) W42723  |
| 300 | GF200:96(5B1):384(2C1)      | PROTODHHERIN 2 (CADERIN-LIKE 2) R89615  |
| 301 | GF201:96(79A3):384(9A5)     | ESTS, WEAKLY SIMILAR TO ZINC FINGER PROTEIN 91 [H.SAPIENS] N64741   |
| 302 | PEROU:96(8B7):384(20D13)    | 241097 H80335   |
| 303 | GF200:96(15E11):384(4J22)   | TISSUE FACTOR PATHWAY INHIBITOR 2 AA399473  |
| 304 | PEROU:96(2G11):384(19M22)   | TISSUE INHIBITOR OF METALLOPROTEINASE 1 (ERYTHROID POTENTIATING ACTIVITY, COLLAGENASE INHIBITOR) AA287220                   |
| 305 | PEROU:96(6G9):384(20M18)    | CLAUDIN 4 AA506754  |
| 306 | GF200:96(26H1):384(702)     | TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY, MEMBER 10B AA453410   |
| 307 | GF200:96(25H11):384(7021)   | CD44 ANTIGEN (HOMING FUNCTION AND INDIAN BLOOD GROUP SYSTEM) AA282906   |
| 308 | GF201:96(89A7):384(11B14)   | RAS INHIBITOR AA291556  |
| 309 | GF200:96(31A2):384(8B4)     | EST, MODERATELY SIMILAR TO CD-7 METALLOTHIONEIN-2 [H.SAPIENS] R16596  |
| 310 | GF200:96(26C4):384(7E8)     | METALLOTHIONEIN 1L N80129   |
| 311 | GF200:96(27A1):384(7B2)     | METALLOTHIONEIN 1H H77766   |
| 312 | GF200:96(9G2):384(3M3)      | METALLOTHIONEIN 1G H53340   |
| 313 | GF200:96(14G3):384(4M6)     | ALANINE-GLYOXYLATE AMINOTRANSFERASE (OXALOSIS I; HYPEROXALURIA I; GLYCOLICACIDURIA; SERINE-PYRUVATE AMINOTRANSFERASE) N5782 |
| 314 | GF201:96(98A4):384(13B7)    | HUMAN METALLOTHIONEIN (MT)I-F GENE N55459   |
| 315 | GF201:96(89E5):384(11J10)   | HUMAN METALLOTHIONEIN (MT)I-F GENE T56281   |
| 316 | GF201:96(79F3):384(9K5)     | 487722 AA043551   |

Table 1

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| 317 | PEROU:96(6A6):384(20A12)  | FOS-RELATED ANTIGEN 2 AA101616   |
| 318 | PEROU:96(6A7):384(20A14)  | 111437 T90760  |
| 319 | GF200:96(2H3):384(106)    | PLASMINOGEN ACTIVATOR, UROKINASE RECEPTOR AA455222   |
| 320 | GF200:96(15B9):384(4D18)  | PLASMINOGEN ACTIVATOR, UROKINASE AA284668  |
| 321 | GF200:96(3A5):384(1B10)   | PEPTIDYLGLYCINE ALPHA-AMIDATING MONOOXYGENASE R66310   |
| 322 | GF201:96(99B7):384(14C13) | SHC (SRC HOMOLOG 2 DOMAIN-CONTAINING) TRANSFORMING PROTEIN 1 R52961                              |
| 323 | GF200:96(15B2):384(4D4)   | SHC (SRC HOMOLOG 2 DOMAIN-CONTAINING) TRANSFORMING PROTEIN 1 T50633                              |
| 324 | PEROU:96(7A5):384(20B10)  | HEPARAN SULFATE PROTEOGLYCAN 1 AA122056  |
| 325 | GF200:96(12C5):384(3F9)   | GLUTATHIONE S-TRANSFERASE PI R33755  |
| 326 | GF200:96(12B5):384(3D9)   | GUANINE NUCLEOTIDE BINDING PROTEIN (G PROTEIN), ALPHA INHIBITING ACTIVITY POLYPEPTIDE 1 AA406420 |
| 327 | PEROU:96(3G4):384(19N8)   | INTEGRIN, ALPHA 6 H06635   |
| 328 | PEROU:96(9B6):384(18D12)  | INTEGRIN, ALPHA 6 N22383   |
| 329 | PEROU:96(3A6):384(19B12)  | INTEGRIN ALPHA 6 T54750  |
| 330 | PEROU:96(8B10):384(20D19) | 254428 N22383  |
| 331 | GF200:96(2E9):384(11I18)  | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, GAMMA POLYPEPTIDE R38343                            |
| 332 | GF201:96(66E7):384(23J13) | HOMO SAPIENS CLONE 24659 MRNA SEQUENCE AA454584  |
| 333 | GF200:96(13H5):384(4O9)   | CALPAIN, LARGE POLYPEPTIDE L2 AA102454   |
| 334 | GF200:96(4H7):384(1P13)   | HUMAN RAS INHIBITOR MRNA, 3' END R83224  |
| 335 | GF201:96(91A6):384(12A11) | PROTEIN TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE SUBSTRATE 1 AA417279                             |
| 336 | GF200:96(25F4):384(7K7)   | GAP JUNCTION PROTEIN, ALPHA 1, 43KD (CONNEXIN 43) AA487623                                       |
| 337 | GF200:96(6A8):384(2A16)   | HOMO SAPIENS CLONE 23565 UNKNOWN MRNA, PARTIAL CDS AA464566                                      |
| 338 | GF200:96(23E10):384(6J20) | SERUM/GLUCOCORTICOID REGULATED KINASE AA486082   |
| 339 | GF200:96(26D6):384(7G12)  | NICOTINAMIDE N-METHYLTRANSFERASE T72235  |
| 340 | GF201:96(66F9):384(23L17) | HOMO SAPIENS MRNA; CDNA DKFZP586L2123 (FROM CLONE DKFZP586L2123) AA443119                        |
| 341 | GF200:96(8B12):384(2D23)  | CAVEOLIN 2 T89391  |
| 342 | GF201:96(96G3):384(13M6)  | CAVEOLIN 1, CAVEOLAE PROTEIN, 22KD AA055835  |
| 343 | GF200:96(14D11):384(4G22) | APOLIPOPROTEIN E AA478589  |
| 344 | GF200:96(14E11):384(4I22) | ANNEXIN I (LIPOCORTIN I) H63077  |
| 345 | PEROU:96(3D9):384(19H18)  | CADHERIN 13, H-CADHERIN (HEART) AA160651   |
| 346 | GF200:96(9B5):384(3C9)    | CADHERIN 13, H-CADHERIN (HEART) R17717   |
| 347 | GF200:96(21G5):384(6M9)   | REGULATED IN GLIOMA AA425947   |
| 348 | GF201:96(87G4):384(11M7)  | SOLUTE CARRIER FAMILY 10 (SODIUM/BILE ACID COTRANSPORTER FAMILY), MEMBER 1 T68568                |
| 349 | GF201:96(87C9):384(11E17) | PLACENTAL GROWTH FACTOR, VASCULAR ENDOTHELIAL GROWTH FACTOR-RELATED PROTEIN AA130714             |
| 350 | GF200:96(4E3):384(1J5)    | VASCULAR ENDOTHELIAL GROWTH FACTOR C H07991  |
| 351 | GF200:96(2H5):384(1O10)   | PLASMINOGEN ACTIVATOR INHIBITOR, TYPE I N75719   |
| 352 | PEROU:96(6B9):384(20C18)  | 197450 H51958  |
| 353 | GF200:96(3E9):384(1J18)   | MET PROTO-ONCOGENE (HEPATOCYTE GROWTH FACTOR RECEPTOR) AA410591                                  |

Table 1

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| 354 | GF201:96(86C10):384(10F19) | TRANSFORMING GROWTH FACTOR, BETA-INDUCED, 68KD AA633901  |
| 355 | GF201:96(97B7):384(13D14)  | BONE MORPHOGENETIC PROTEIN 1 R56774  |
| 356 | PEROU:96(2F10):384(19K20)  | EPHRIN-B2 AA292568   |
| 357 | GF200:96(24G5):384(6N9)    | 796198 AA461424  |
| 358 | PEROU:96(7F9):384(20I18)   | TRANSMEMBRANE 4 SUPERFAMILY MEMBER 1 AA088439  |
| 359 | PEROU:96(6D1):384(20G2)    | TRANSMEMBRANE 4 SUPERFAMILY MEMBER 1 N47476  |
| 360 | GF200:96(30F10):384(8K20)  | ESTS, MODERATELY SIMILAR TO CALDESMON [H.SAPIENS] H48677   |
| 361 | GF200:96(19B11):384(5D22)  | HUMAN MRNA FOR UNKNOWN PRODUCT, PARTIAL CDS H99544   |
| 362 | GF200:96(4B2):384(1D3)     | HUMAN BETA-1D INTEGRIN MRNA, CYTOPLASMIC DOMAIN, PARTIAL CDS W67174  |
| 363 | GF200:96(22F1):384(6K2)    | FORKHEAD (DROSOPHILA) HOMOLOG 1 (RHABDOMYOSARCOMA) AA194765  |
| 364 | GF201:96(60E2):384(22I4)   | 356835 W84612  |
| 365 | GF201:96(90G1):384(11N1)   | ESTS, WEAKLY SIMILAR TO N-WASP [H.SAPIENS] AA427561  |
| 366 | GF200:96(22H2):384(6O4)    | ENDOTHELIAL CELL PROTEIN C/ACTIVATED PROTEIN C RECEPTOR T47442   |
| 367 | GF200:96(26F7):384(7K14)   | MILK FAT GLOBULE-EGF FACTOR 8 PROTEIN AA448941   |
| 368 | GF200:96(24F12):384(6L23)  | EXOSTOSES (MULTIPLE) 1 AA487582  |
| 369 | GF200:96(12G7):384(3N13)   | FIBRILLIN 2(CONGENITAL CONTRACTURAL ARACHNODACTYL) T98152  |
| 370 | GF201:96(56F3):384(21K6)   | ESTS, MODERATELY SIMILAR TO INITIATION FACTOR EIF-2B GAMMA SUBUNIT [R.NORVEGICUS] W58368                   |
| 371 | GF201:96(92G7):384(12M14)  | 345935 W7201   |
| 372 | GF200:96(4B11):384(1D21)   | INOSITOL POLYPHOSPHATE-1-PHOSPHATASE H52141  |
| 373 | GF201:96(65D5):384(23H10)  | 809620 AA458491  |
| 374 | GF200:96(15C10):384(4F20)  | TRANSFORMING GROWTH FACTOR, BETA RECEPTOR II (70-80KD) AA487034  |
| 375 | GF200:96(18D4):384(5G8)    | SUSHI-REPEAT-CONTAINING PROTEIN, X CHROMOSOME AA448569   |
| 376 | GF200:96(18A1):384(5A2)    | INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 6 AA478724  |
| 377 | GF200:96(13B5):384(4C9)    | DIPHThERIA TOXIN RECEPTOR (HEPARIN-BINDING EPIDERMAL GROWTH FACTOR-LIKE GROWTH FACTOR) R14663              |
| 378 | GF201:96(94G6):384(12N11)  | DUAL SPECIFICITY PHOSPHATASE 6 AA630374  |
| 379 | GF201:96(99H8):384(14O15)  | 76169 T59658   |
| 380 | GF200:96(30H10):384(8O20)  | 66972 T69540   |
| 381 | GF201:96(84D9):384(10G18)  | ESTS, HIGHLY SIMILAR TO G PROTEIN-COUPLED RECEPTOR KINASE 6, SPLICE VARIANT B [H.SAPIENS] H97146           |
| 382 | GF200:96(19B12):384(5D24)  | NEUROBLASTOMA CANDIDATE REGION, SUPPRESSION OF TUMORIGENICITY 1 AA598830                                   |
| 383 | GF201:96(97E12):384(13J24) | ADENOSINE A2B RECEPTOR AA055350  |
| 384 | GF200:96(16A9):384(4B17)   | CD59 ANTIGEN P18-20 (ANTIGEN IDENTIFIED BY MONOCLONAL ANTIBODIES 16.3A5, EJ16, EJ30, EL32 AND G344) H60549 |
| 385 | GF200:96(14A10):384(4A20)  | CD59 ANTIGEN P18-20 (ANTIGEN IDENTIFIED BY MONOCLONAL ANTIBODIES 16.3A5, EJ16, EJ30, EL32 AND G344) H60549 |
| 386 | GF200:96(1G10):384(1M19)   | SYNUCLEIN, ALPHA (NON A4 COMPONENT OF AMYLOID PRECURSOR) AA455067  |
| 387 | GF200:96(11H2):384(3P4)    | STIMULATED TRANS-ACTING FACTOR (50 KDA) AA083407   |

Table 1

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| 388 | GF200:96(4C7):384(1F13)    | CASPASE 1, APOPTOSIS-RELATED CYSTEINE PROTEASE (INTERLEUKIN 1, BETA, CONVERTASE) T95052   |
| 389 | PEROU:96(8A6):384(20B11)   | INTEGRIN ALPHA 1 (ANTIGEN CD11A (P180) LYMPHOCYTE FUNCTION-ASSOCIATED ANTIGEN 1; ALPHA POLYPEPTIDE) R48796  |
| 390 | GF201:96(67A5):384(24A9)   | 810515 AA464542   |
| 391 | GF202:96(111B6):384(15D12) | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 4336506) [H.SAPIENS] H96654   |
| 392 | GF200:96(13B6):384(4C11)   | DIHYDROPYRIMIDINE DEHYDROGENASE AA428170  |
| 393 | GF200:96(16B11):384(4D21)  | ESTS, HIGHLY SIMILAR TO (DEFINE NOT AVAILABLE 4679030) [H.SAPIENS] AA521232   |
| 394 | GF200:96(3E6):384(1J12)    | MOESIN R22977   |
| 395 | GF200:96(27C4):384(7F8)    | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 4502327) [H.SAPIENS] R65792   |
| 396 | PEROU:96(3A8):384(19B16)   | V-YES-1 YAMAGUCHI SARCOMA VIRAL RELATED ONCOGENE HOMOLOG T55472   |
| 397 | GF201:96(95F3):384(13K5)   | GLUTATHIONE PEROXIDASE 1 AA485362   |
| 398 | GF201:96(79C7):384(9E13)   | 795757 AA460314   |
| 399 | GF201:96(88B11):384(11C22) | LECTIN, GALACTOSIDE-BINDING, SOLUBLE, 3 (GALECTIN 3) AA630328   |
| 400 | GF201:96(86D8):384(10H15)  | TACHYKININ, PRECURSOR 1 (SUBSTANCE K, SUBSTANCE P, NEUROKININ 1, NEUROKININ 2, NEUROMEDIN L, NEUROKININ ALPHA, NEUROPEPTIDE K, NEUROPEPTIDE GAMMA) AA446659 |
| 401 | GF202:96(109D1):384(15G1)  | INTERLEUKIN 1, BETA W47101  |
| 402 | GF201:96(88D6):384(11G12)  | INTERLEUKIN 1, BETA AA150507  |
| 403 | GF201:96(89A6):384(11B12)  | RAS-RELATED C3 BOTULINUM TOXIN SUBSTRATE 1 (RHO FAMILY, SMALL GTP BINDING PROTEIN RAC1) AA626787  |
| 404 | GF201:96(89A5):384(11B10)  | PROTEIN TYROSINE PHOSPHATASE J AA644448   |
| 405 | GF201:96(56C11):384(21E22) | ESTS, WEAKLY SIMILAR TO !!! ALU SUBFAMILY SB1 WARNING ENTRY !!!! [H.SAPIENS] N21103   |
| 406 | GF200:96(23F10):384(6L20)  | FAT TUMOR SUPPRESSOR (DROSOPHILA) HOMOLOG AA159194  |
| 407 | GF201:96(58H4):384(21P7)   | 271952 N35301   |
| 408 | GF200:96(8C11):384(2F21)   | 179276 H50323   |
| 409 | GF200:96(18E4):384(5I8)    | INOSITOL POLYPHOSPHATE-5-PHOSPHATASE, 145KD AA521067  |
| 410 | GF200:96(13G1):384(4M1)    | CHOLINERGIC RECEPTOR, NICOTINIC, EPSILON POLYPEPTIDE R02058   |
| 411 | GF200:96(13B9):384(4C17)   | ALDO-KETO REDUCTASE FAMILY 1, MEMBER C1 (DIHYDRODIOL DEHYDROGENASE 1; 20-ALPHA (3-ALPHA)-HYDROXYSTEROID DEHYDROGENASE) R93124                               |
| 412 | GF201:96(97D4):384(13H8)   | TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY, MEMBER 6 AA293571   |
| 413 | GF201:96(96H6):384(13Q12)  | CYSTATIN A (STEIN A) W72207   |
| 414 | GF201:96(82C5):384(9F9)    | 347436 W81192   |
| 415 | PEROU:96(10C1):384(18F1)   | ANTILEUKOPROTEINASE AA026192  |
| 416 | GF201:96(91H5):384(12O9)   | JAGGED1 (ALAGILLE SYNDROME) R70685  |
| 417 | GF200:96(2G8):384(1M16)    | PRION PROTEIN (P27-30) (CREUTZFELD-JAKOB DISEASE, GERSTMANN-STRAUSLER-SCHENKER SYNDROME, FATAL FAMILIAL INSOMNIA) AA455969                                  |
| 418 | GF201:96(55C7):384(21E13)  | ESTS, WEAKLY SIMILAR TO KIAA0639 PROTEIN [H.SAPIENS] AA284277   |
| 419 | GF202:96(110H5):384(15O10) | 843045 AA488420   |
| 420 | GF201:96(97E3):384(13J6)   | ALDEHYDE DEHYDROGENASE 6 AA455235   |

Table 1

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| 421 | GF200:96(25G1):384(7M1)    | CADHERIN 3, P-CADHERIN (PLACENTAL) AA425556   |
| 422 | PEROU:96(1A3):384(19A5)    | MDGI/FATTY ACID BINDING PROTEIN 3, MUSCLE AND HEART W04872  |
| 423 | GF201:96(86C6):384(10F11)  | TROPONIN I, SKELETAL, FAST AA181334   |
| 424 | GF201:96(94H5):384(12P9)   | MATRIX METALLOPROTEINASE 14 (MEMBRANE-INSERTED) N33214  |
| 425 | GF201:96(94H6):384(12P11)  | LAMININ, GAMMA 2 (NICEIN (100KD), KALININ (105KD), BM600 (100KD), HERLITZ JUNCTIONAL EPIDERMOLYSIS BULLOSA) AA677534  |
| 426 | GF200:96(14E8):384(41I6)   | ANNEXIN VIII AA252968   |
| 427 | GF201:96(93G2):384(12N4)   | ESTS, HIGHLY SIMILAR TO PROBABLE ATAXIA-TELANGIECTASIA GROUP D PROTEIN [H.SAPIENS] AA055486   |
| 428 | PEROU:96(8D6):384(20H11)   | KERATIN 17 AA026642   |
| 429 | PEROU:96(9D1):384(18H2)    | KERATIN 17 aa026642   |
| 430 | GF200:96(17G7):384(SM13)   | ESTS, HIGHLY SIMILAR TO KERATIN K5, S8K TYPE II, EPIDERMAL [H.SAPIENS] AA160507   |
| 431 | PEROU:96(9C6):384(18F12)   | KERATIN 5 (EPIDERMOLYSIS BULLOSA SIMPLEX DOWLING-MEARA/KOBNER/WEBER-COCKAYNE TYPES) W72110  |
| 432 | PEROU:96(8C11):384(20F21)  | ESTS, HIGHLY SIMILAR TO KERATIN K5, S8K TYPE II, EPIDERMAL W72110   |
| 433 | GF200:96(8C10):384(2F19)   | BULLOUS PEPHIGOID ANTIGEN 1 (230/240KD) H44784  |
| 434 | GF200:96(11H4):384(3P8)    | S100 CALCIUM-BINDING PROTEIN A2 AA458884  |
| 435 | GF200:96(4B6):384(1D11)    | INTEGRIN, BETA 4 AA485668   |
| 436 | PEROU:96(3B12):384(19D24)  | INTEGRIN, BETA 4 AA076514   |
| 437 | PEROU:96(8A7):384(20B13)   | 2255577 A679149   |
| 438 | GF201:96(8B12):384(11C24)  | LAMININ, ALPHA 3 (NICEIN (150KD), KALININ (165KD), BM600 (150KD), EPILEGRIN) AA001432   |
| 439 | GF201:96(92B12):384(12C24) | COLLAGEN, TYPE XVII, ALPHA 1 H87536   |
| 440 | GF200:96(14C12):384(4E24)  | BASONUCLIN R26526   |
| 441 | GF201:96(67B11):384(24C21) | 504940 AA150619   |
| 442 | GF201:96(87B6):384(11C11)  | HUMAN DNA SEQUENCE FROM CLONE 973M2 ON CHROMOSOME 1Q24.3-31.1 CONTAINS PROSTAGLANDIN-ENDOPEROXIDE SYNTHASE 2 (PROSTAGLANDIN G/H SYNTHASE AND CYCLOOXYGENASE) GENE, ESTS, STS, GSSS AA644211 |
| 443 | GF201:96(80A8):384(9A16)   | 810904 AA459285   |
| 444 | GF201:96(89D8):384(11H16)  | MYOSIN IC AA029956  |
| 445 | GF200:96(21F6):384(6K11)   | EPHRIN-B1 AA428778  |
| 446 | GF200:96(3F1):384(1L2)     | MATRIX METALLOPROTEINASE 7 (MATRILYSIN, UTERINE) AA031513   |
| 447 | GF200:96(28F3):384(7L5)    | 294682 W01603   |
| 448 | PEROU:96(2E11):384(19I22)  | INTEGRIN, ALPHA 3 (ANTIGEN CD49C, ALPHA 3 SUBUNIT OF VLA-3 RECEPTOR) AA293040   |
| 449 | GF201:96(88E1):384(11I12)  | INTEGRIN, ALPHA 3 (ANTIGEN CD49C, ALPHA 3 SUBUNIT OF VLA-3 RECEPTOR) AA424695   |
| 450 | GF200:96(2B4):384(1C8)     | SERUM AMYLOID A1 H25546   |
| 451 | GF200:96(24E3):384(6J5)    | GM2 GANGLIOSIDE ACTIVATOR PROTEIN AA453978  |
| 452 | GF201:96(69B4):384(24D8)   | ESTS, WEAKLY SIMILAR TO TRANSPONSON LRE2 REVERSE TRANSCRIPTASE HOMOLOG [H.SAPIENS] W48580   |
| 453 | GF200:96(13H3):384(4O5)    | CARBONIC ANHYDRASE II H23187  |

Table 1

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| 454 | GF200:96(17F8):384(5K15)    | LATENT TRANSFORMING GROWTH FACTOR BETA BINDING PROTEIN 2 AA424629  |
| 455 | GF201:96(100F6):384(14K12)  | SECRETED FRIZZLED-RELATED PROTEIN 1 T68892   |
| 456 | GF201:96(58C4):384(21F7)    | LECTIN, GALACTOSIDE-BINDING, SOLUBLE, 7 (GALECTIN 7) W72436  |
| 457 | PEROU:96(4A6):384(19B11)    | PLASMINOGEN ACTIVATOR, UROKINASE AA284668  |
| 458 | GF200:96(27B4):384(7D8)     | ENDOTHELIN RECEPTOR TYPE A AA452627  |
| 459 | GF200:96(27H1):384(7P2)     | ESTS, HIGHLY SIMILAR TO (DEFINE NOT AVAILABLE 5231137) [H.SAPIENS] W30988                                  |
| 460 | GF200:96(19E6):384(5J12)    | N-MYC DOWNSTREAM REGULATED AA489261  |
| 461 | PEROU:96(1H4):384(19O7)     | EPIDERMAL GROWTH FACTOR RECEPTOR (AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL (V-ERB-B) ONCOGENE HOMOLOG) AA234783 |
| 462 | GF201:96(79B6):384(9C11)    | 359285 AA016234  |
| 463 | GF200:96(17H4):384(5O7)     | INTERLEUKIN 4 RECEPTOR AA292025  |
| 464 | GF200:96(24H11):384(6P21)   | DIACYLGLYCEROL KINASE, ALPHA (80KD) AA456900   |
| 465 | GF200:96(3A11):384(1B22)    | 770670 AA476272  |
| 466 | GF201:96(97E10):384(13I20)  | ADRENERGIC, BETA-2-, RECEPTOR, SURFACE H90431  |
| 467 | GF202:96(110E4):384(15I8)   | 592818 AA158252  |
| 468 | GF201:96(79A11):384(9A21)   | 264166 N20482  |
| 469 | PEROU:96(9B8):384(18D16)    | TRANSFORMING GROWTH FACTOR, BETA 2 N48082  |
| 470 | GF200:96(1D9):384(1G17)     | TRANSFORMING GROWTH FACTOR, BETA 2 AA233809  |
| 471 | GF200:96(27F10):384(7L20)   | ESTS, WEAKLY SIMILAR TO S. CEREVISIAE HYPOTHETICAL PROTEIN YKL166 [C.ELEGANS] T82817                       |
| 472 | GF200:96(23H1):384(6P2)     | 667883 AA258396  |
| 473 | GF201:96(79B9):384(9C17)    | FRIZZLED (DROSOPHILA) HOMOLOG 7 N69049   |
| 474 | GF200:96(8E7):384(2J13)     | CHROMOSOME X OPEN READING FRAME 6 R08270   |
| 475 | GF200:96(17H7):384(5O13)    | INTERLEUKIN 15 RECEPTOR, ALPHA AA053285  |
| 476 | GF200:96(22E2):384(6I4)     | FK506-BINDING PROTEIN 5 W86653   |
| 477 | GF200:96(13E3):384(4I5)     | CYCLIN D2 H84153   |
| 478 | GF202:96(113E8):384(16I15)  | 843283 AA488672  |
| 479 | GF201:96(67D6):384(24G11)   | 810459 AA457138  |
| 480 | PEROU:96(8E1):384(2OJ1)     | CYCLIN-DEPENDENT KINASE 7 (HOMOLOG OF XENOPUS MO15 CDK-ACTIVATING KINASE) AA031961                         |
| 481 | GF201:96(102B12):384(14D23) | 83297 T68333   |
| 482 | GF201:96(88A3):384(11A6)    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DQ BETA 1 AA669055   |
| 483 | GF201:96(88A4):384(11A8)    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DN ALPHA AA702254  |
| 484 | GF201:96(88D4):384(11G8)    | INTERLEUKIN 15 N59270  |
| 485 | GF200:96(24C6):384(6F11)    | GUANYLATE BINDING PROTEIN 1, INTERFERON-INDUCIBLE, 67KD AA486849   |
| 486 | GF201:96(88D3):384(11G6)    | INTERLEUKIN 6 (INTERFERON, BETA 2) N98591  |
| 487 | GF200:96(30B3):384(8C6)     | TUMOR NECROSIS FACTOR ALPHA-INDUCIBLE CELLULAR PROTEIN CONTAINING LEUCINE ZIPPER DOMAINS R70518            |
| 488 | GF201:96(66C8):384(23F15)   | 490995 AA136707  |
| 489 | GF201:96(93B9):384(12D18)   | 263013 H99816  |

Table 1

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| 490 | GF200:96(3G9):384(1N18)     | PROCOLLAGEN-LYSINE, 2-OXOGLUTARATE 5-DIOXYGENASE (LYSINE HYDROXYLASE, EHLERS-DANLOS SYNDROME TYPE VI) AA476240   |
| 491 | GF202:96(115C3):384(16F6)   | ECTODERMAL-NEURAL CORTEX (WITH BTB-LIKE DOMAIN) AA102130   |
| 492 | GF202:96(110D6):384(15G12)  | ECTODERMAL-NEURAL CORTEX (WITH BTB-LIKE DOMAIN) H72122   |
| 493 | GF201:96(89F6):384(11J12)   | A DISINTEGRIN AND METALLOPROTEINASE DOMAIN 9 (MELTRIN GAMMA) H59231  |
| 494 | GF200:96(15H7):384(4P14)    | SWI/SNF RELATED, MATRIX ASSOCIATED, ACTIN DEPENDENT REGULATOR OF CHROMATIN, SUBFAMILY A, MEMBER 1 AA496809   |
| 495 | GF201:96(63D10):384(23G19)  | ESTS, WEAKLY SIMILAR TO !!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS] W80619  |
| 496 | GF201:96(87A11):384(11A21)  | RAP1, GTPASE ACTIVATING PROTEIN 1 AA682897   |
| 497 | GF201:96(87A12):384(11A23)  | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, M H26426  |
| 498 | GF201:96(58C2):384(21F3)    | PHOSPHORYLASE, GLYCOGEN; LIVER (HERS DISEASE, GLYCOGEN STORAGE DISEASE TYPE VI) AA147640   |
| 499 | GF201:96(58F11):384(21L21)  | HOMO SAPIENS MRNA FULL LENGTH INSERT CDNA CLONE EUROIMAGE 122439 T66902  |
| 500 | GF201:96(94F10):384(12L19)  | ESTS, HIGHLY SIMILAR TO (DEFINE NOT AVAILABLE 4704754) [H.SAPIENS] AA426053  |
| 501 | GF201:96(81C1):384(9F2)     | ESTS, WEAKLY SIMILAR TO ALTERNATIVELY SPLICED PRODUCT USING EXON 13A [H.SAPIENS] N80834  |
| 502 | GF200:96(21H10):384(6019)   | PLEOMORPHIC ADENOMA GENE-LIKE 1 AA463297   |
| 503 | GF201:96(65A12):384(23B24)  | HOMO SAPIENS MRNA FOR KIAA0786 PROTEIN, PARTIAL CDS W74533   |
| 504 | GF201:96(93D12):384(12H24)  | HOMO SAPIENS CLONE L5 UNKNOWN MRNA, PARTIAL CDS N53385   |
| 505 | GF201:96(69C2):384(24F4)    | 248849 H80749  |
| 506 | PEROU:96(6E4):384(20I8)     | 1912786 A1304356   |
| 507 | GF200:96(9G4):384(3M7)      | TRANSMEMBRANE PROTEIN AA456008   |
| 508 | GF201:96(89B8):384(11D16)   | ESTS, MODERATELY SIMILAR TO PRO-A2(XI) [H.SAPIENS] N66396  |
| 509 | GF201:96(80F9):384(9K18)    | 366815 AA029415  |
| 510 | GF200:96(29C2):384(8E3)     | 241824 H93217  |
| 511 | GF200:96(18C1):384(3E2)     | 781766 AA431678  |
| 512 | GF201:96(99B9):384(14C17)   | PURINERGIC RECEPTOR (FAMILY A GROUP 5) R91539  |
| 513 | GF201:96(92E9):384(12I18)   | PURINERGIC RECEPTOR (FAMILY A GROUP 5) N90783  |
| 514 | GF200:96(12C4):384(3F7)     | 248261 N78083  |
| 515 | GF200:96(24F11):384(6L21)   | 81331 T60111   |
| 516 | GF200:96(1B7):384(1C13)     | V-MYC AVIAN MYELOCTOMATOSIS VIRAL ONCOGENE HOMOLOG AA464600  |
| 517 | GF200:96(3E2):384(1J4)      | CALCIUM CHANNEL, VOLTAGE-DEPENDENT, BETA 2 SUBUNIT R92452  |
| 518 | GF201:96(86F9):384(10L17)   | SOLUTE CARRIER FAMILY 16 (MONOCARBOXYLIC ACID TRANSPORTERS), MEMBER 1 AA043133   |
| 519 | GF200:96(12D9):384(3H17)    | 823859 AA490688  |
| 520 | GF200:96(27C6):384(7F12)    | 246035 N55540  |
| 521 | GF200:96(11D3):384(3H6)     | CHONDROITIN SULFATE PROTEOGLYCAN 4 (MELANOMA-ASSOCIATED) R53652  |
| 522 | GF202:96(112E12):384(15J23) | HUMAN DNA SEQUENCE FROM CLONE 971N18 ON CHROMOSOME 20P12 CONTAINS PROCESSED PSEUDOGENE PHKBP1, NOVEL GENE, ESTS, CA REPEAT (D20S907), STSS AND GSSS AA457223 |
| 523 | GF201:96(96H5):384(13O10)   | CYTOCHROME P450, SUBFAMILY IVB, POLYPEPTIDE 1 AA291484   |

Table 1

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| 524 | GF201:96(70C12):384(24F23) | ESTS, WEAKLY SIMILAR TO ORF2 [M.MUSCULUS] N73316  |
| 525 | GF201:96(70B1):384(24D1)   | 267252 N24579   |
| 526 | GF200:96(25D12):384(7G23)  | COAGULATION FACTOR VIIIC, PROCOAGULANT COMPONENT (HEMOPHILIA A) AA437191  |
| 527 | GF201:96(63G10):384(23M19) | 307740 N92947   |
| 528 | GF200:96(1E9):384(1117)    | THROMBOMODULIN H59861   |
| 529 | GF200:96(2H4):384(108)     | PLASMINOGEN ACTIVATOR, TISSUE AA453728  |
| 530 | GF201:96(97H3):384(13P6)   | PHORBOL-12-MYRISTATE-13-ACETATE-INDUCED PROTEIN 1 AA458838  |
| 531 | GF200:96(2G4):384(1M8)     | KIAA0159 GENE PRODUCT R00822  |
| 532 | GF200:96(4A4):384(1B7)     | 50182 H17982  |
| 533 | GF200:96(10A12):384(3A24)  | PHOSPHOSERINE PHOSPHATASE-LIKE W05628   |
| 534 | GF202:96(115D6):384(16H12) | PHOSPHOSERINE PHOSPHATASE AA488432  |
| 535 | GF200:96(2G10):384(1M20)   | PREGNANCY SPECIFIC BETA-1-GLYCOPROTEIN 11 R73909  |
| 536 | GF200:96(3C7):384(1F14)    | NON-SPECIFIC CROSS REACTING ANTIGEN AA054073  |
| 537 | GF201:96(97A5):384(13B10)  | CARCINOEMBRYONIC ANTIGEN AA130584   |
| 538 | GF200:96(2B10):384(1C20)   | S100 CALCIUM-BINDING PROTEIN P R32952   |
| 539 | GF201:96(82B5):384(9D9)    | HUMAN DNA SEQUENCE FROM CLONE 71116 ON CHROMOSOME XP11. CONTAINS A PROBABLE ZINC FINGER PROTEIN (PSEUDO)GENE, AN UNKNOWN PUTATIVE GENE, A PSEUDOGENE WITH HIGH SIMILARITY TO PART OF ANTIGEN KI-67, A PUTATIVE CHONDROITIN 6-SULFOTRAN AA284109 |
| 540 | GF201:96(99G5):384(14M9)   | 50114 H16743  |
| 541 | PEROU:96(9C12):384(18F24)  | HOMO SAPIENS MITOCHONDRIAL DNA D38112   |
| 542 | PEROU:96(1H12):384(19O23)  | 236142 H61303   |
| 543 | GF200:96(17G2):384(5M3)    | LOW DENSITY LIPOPROTEIN RECEPTOR (FAMILIAL HYPERCHOLESTEROLEMIA) AA504461   |
| 544 | GF200:96(9H12):384(3O23)   | STEAROYL-COA DESATURASE (DELTA-9-DESATURASE) R00707   |
| 545 | GF201:96(84H9):384(10O18)  | CYTCHROME B-561 AA457700  |
| 546 | GF200:96(7C2):384(2F4)     | LUNATIC FRINGE (DROSOPHILA) HOMOLOG R56562  |
| 547 | GF200:96(14F11):384(4K22)  | ALDEHYDE DEHYDROGENASE 8 AA443630   |
| 548 | GF200:96(13G10):384(4M19)  | CATHEPSIN D (LYSOSOMAL ASPARTYL PROTEASE) N20475  |
| 549 | GF200:96(12G3):384(3N5)    | FIBROMODULIN AA486471   |
| 550 | GF201:96(100B1):384(14C2)  | 51344 H21040  |
| 551 | GF201:96(58D5):384(21H9)   | HOMO SAPIENS CHROMOSOME 19, COSMID F22329 T98002  |
| 552 | GF200:96(7E8):384(2116)    | ESTS, HIGHLY SIMILAR TO GP330 PRECURSOR [H.SAPIENS] R76808  |
| 553 | GF202:96(110A5):384(15A10) | HOMO SAPIENS CLONE 23876 NEURONAL OLFACTOMEDIN-RELATED ER LOCALIZED PROTEIN MRNA, PARTIAL CDS H23124  |
| 554 | GF201:96(81G6):384(9N12)   | 277463 N56872   |
| 555 | GF200:96(10C3):384(3E6)    | ESTS, HIGHLY SIMILAR TO INOSITOL POLYPHOSPHATE 4-PHOSPHATASE TYPE II-ALPHA [H.SAPIENS] R86721   |
| 556 | GF201:96(81E4):384(9J8)    | 271989 N31935   |
| 557 | GF201:96(88E5):384(11I10)  | INSULIN RECEPTOR SUBSTRATE 1 AA460841   |
| 558 | GF201:96(93A7):384(12B14)  | KIAA0417 GENE PRODUCT H17950  |



Table 1

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| 559 | GF201:96(89A4):384(11B8)   | HUMAN RETINOID X RECEPTOR-GAMMA MRNA, COMPLETE CDS W96099  |
| 560 | GF202:96(109C2):384(15E3)  | NEURONAL PENTRAXIN II AA683041   |
| 561 | GF200:96(15C7):384(4F14)   | TYROSINASE (OCULOCUTANEOUS ALBINISM IA) N42770   |
| 562 | GF201:96(99F12):384(14K23) | ZINC FINGER PROTEIN HOMOLOGOUS TO ZFP103 IN MOUSE R54105   |
| 563 | GF200:96(9F1):384(3K1)     | TRANSMEMBRANE GLYCOPROTEIN AA055862  |
| 564 | GF201:96(97D10):384(13H20) | ALPHA-FETOPROTEIN T59043   |
| 565 | GF200:96(4C11):384(1F21)   | INTER-ALPHA (GLOBULIN) INHIBITOR, H2 POLYPEPTIDE R06634  |
| 566 | GF201:96(90A4):384(11B7)   | HUMAN MRNA FOR KIAA0282 GENE, PARTIAL CDS R44936   |
| 567 | GF201:96(92H11):384(12O22) | CADHERIN 6, K-CADHERIN (FETAL KIDNEY) AA421819   |
| 568 | GF201:96(88G7):384(11M14)  | FORKHEAD (DROSOPHILA)-LIKE 8 AA069372  |
| 569 | GF201:96(95H11):384(13O21) | FATTY ACID BINDING PROTEIN 1, LIVER T53220   |
| 570 | GF200:96(10B4):384(3C8)    | POTASSIUM VOLTAGE-GATED CHANNEL, KQT-LIKE SUBFAMILY, MEMBER 2 H51461                             |
| 571 | GF200:96(15A8):384(4B16)   | VITRONECTIN (SERUM SPREADING FACTOR, SOMATOMEDIN B, COMPLEMENT S-PROTEIN) N58107                 |
| 572 | GF200:96(27A2):384(7B4)    | PRE-ALPHA (GLOBULIN) INHIBITOR, H3 POLYPEPTIDE T68035  |
| 573 | GF201:96(97C8):384(13F16)  | ASIALOGLYCOPROTEIN RECEPTOR 2 R98050   |
| 574 | GF201:96(97C12):384(13F24) | CARBOXYPEPTIDASE N, POLYPEPTIDE 1, 50KD AA679422   |
| 575 | GF200:96(12H2):384(3P3)    | FIBRINOGEN, B BETA POLYPEPTIDE H91815  |
| 576 | GF200:96(16H8):384(4P15)   | COAGULATION FACTOR II (THROMBIN) T62131  |
| 577 | GF201:96(86G12):384(10N23) | SECRETOGRAININ II (CHROMOGRANIN C) H27864  |
| 578 | GF201:96(97D5):384(13H10)  | APOLIPOPROTEIN H (BETA-2-GLYCOPROTEIN I) H68848  |
| 579 | GF201:96(92F7):384(12K14)  | ESTS, HIGHLY SIMILAR TO PHOSPHODIESTERASE 1/NUCLEOTIDE PYROPHOSPHATASE BETA [H.SAPIENS] AA678335 |
| 580 | GF200:96(27A4):384(7B8)    | CAVALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER R91503                                       |
| 581 | GF200:96(27B3):384(7D6)    | ALKALINE PHOSPHATASE, LIVER/BONE/KIDNEY T94626   |
| 582 | GF201:96(90G7):384(11N13)  | LECTIN, GALACTOSIDE-BINDING, SOLUBLE, 4 (GALECTIN 4) AA130579                                    |
| 583 | GF200:96(1D10):384(1G19)   | TRANSFERRIN H69531   |
| 584 | GF200:96(16G6):384(4N11)   | PHOSPHOLIPASE A2, GROUP IIA (PLATELETS, SYNOVIAL FLUID) T61323                                   |
| 585 | GF201:96(59H8):384(22O15)  | 144862 R78570  |
| 586 | GF200:96(16H9):384(4P17)   | DNA SEGMENT, SINGLE COPY, HOMOLOGOUS ON X AND Y, EXPRESSED PROBES AA496863                       |
| 587 | GF201:96(96F4):384(13K8)   | CHROMOGRANIN B (SECRETOGRAININ 1) W37769   |
| 588 | GF201:96(91H11):384(12O21) | FIBRINOGEN-LIKE 1 AA677287   |
| 589 | GF200:96(1F3):384(1K5)     | TRANSMEMBRANE 4 SUPERFAMILY MEMBER 3 AA045698  |
| 590 | GF200:96(1G3):384(1M5)     | TRANSCOBALAMIN I (VITAMIN B12 BINDING PROTEIN, R BINDER FAMILY) AA155695                         |
| 591 | GF200:96(1A9):384(1A17)    | WINGLESS-TYPE MMTV INTEGRATION SITE FAMILY, MEMBER 5A W49672                                     |
| 592 | GF201:96(58C9):384(21F17)  | FATTY ACID BINDING PROTEIN 3, MUSCLE AND HEART (MAMMARY-DERIVED GROWTH INHIBITOR) AA148548       |
| 593 | GF201:96(88C3):384(11E6)   | LACTOTRANSFERRIN AA677706  |
| 594 | GF200:96(9A4):384(3A7)     | V-MYC AVIAN MYELOCTOMATOSIS VIRAL ONCOGENE HOMOLOG 1, LUNG CARCINOMA DERIVED R62862              |

Table 1

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| 595 | PEROU:96(8H2):384(20P3)     | N-MYC AA101678  |  |
| 596 | GF202:96(109E8):384(15I15)  | 266146 N21576   |  |
| 597 | GF200:96(13E2):384(4I3)     | 214572 H73724   |  |
| 598 | GF201:96(97F8):384(13I16)   | HUMAN AORTIC-TYPE SMOOTH MUSCLE ALPHA-ACTIN (SM-ALPHA-A) GENE, EXON 9 AA634006            |  |
| 599 | GF200:96(3F8):384(1I16)     | MAL, T-CELL DIFFERENTIATION PROTEIN AA227594  |  |
| 600 | GF200:96(15F2):384(4L4)     | CD8 ANTIGEN, BETA POLYPEPTIDE 1 (P37) AA293671  |  |
| 601 | GF201:96(85H7):384(10P14)   | V-MAF MUSCULOAPONEUROTIC FIBROSARCOMA (AVIAN) ONCOGENE HOMOLOG AA043501                   |  |
| 602 | GF202:96(116H2):384(16P3)   | CHLORIDE INTRACELLULAR CHANNEL 2 T52201   |  |
| 603 | GF200:96(13G3):384(4M5)     | CHEMOKINE (C-X3-C) RECEPTOR 1 N51278  |  |
| 604 | GF200:96(22H3):384(6O6)     | ECHINODERM MICROTUBULE-ASSOCIATED PROTEIN-LIKE AA447196                                   |  |
| 605 | GF201:96(91H7):384(12O13)   | IMMUNOGLOBULIN GAMMA 3 (GM MARKER) AA663981   |  |
| 606 | GF200:96(9F9):384(3K17)     | COLONY STIMULATING FACTOR 1 (MACROPHAGE) N92646   |  |
| 607 | GF200:96(26C3):384(7E6)     | NEUTROPHIL CYTOSOLIC FACTOR 1 (47KD, CHRONIC GRANULOMATOUS DISEASE, AUTOSOMAL 1) AA489666 |  |
| 608 | GF201:96(88F6):384(11K12)   | IMMUNOGLOBULIN LAMBDA-LIKE POLYPEPTIDE 2 W73790   |  |
| 609 | PEROU:96(6B12):384(20C24)   | IMMUNOGLOBULIN LAMBDA LIGHT CHAIN R50297  |  |
| 610 | PEROU:96(6D6):384(20G12)    | HUMAN REARRANGED IMMUNOGLOBULIN LAMBDA LIGHT CHAIN MRNA N64851                            |  |
| 611 | GF200:96(26D3):384(7G6)     | HUMAN REARRANGED IMMUNOGLOBULIN LAMBDA LIGHT CHAIN MRNA T67053                            |  |
| 612 | PEROU:96(6B5):384(20C10)    | HUMAN IG J CHAIN GENE H24896  |  |
| 613 | PEROU:96(9A9):384(18B18)    | IMMUNOGLOBULIN J CHAIN H24896   |  |
| 614 | GF200:96(18A10):384(5A20)   | HUMAN IG J CHAIN GENE T70057  |  |
| 615 | PEROU:96(6B4):384(20C8)     | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DQ BETA 1 R73128                              |  |
| 616 | GF200:96(18A7):384(5A14)    | IMMUNOGLOBULIN MU H73590  |  |
| 617 | GF200:96(18G11):384(5M22)   | EARLY DEVELOPMENT REGULATOR 2 (HOMOLOG OF POLYHOMEOTIC 2) AA598840                        |  |
| 618 | PEROU:96(2D10):384(19G20)   | MAX-INTERACTING PROTEIN 1 AI087032  |  |
| 619 | GF201:96(62D10):384(22H19)  | HOMO SAPIENS MRNA FOR KIAA0640 PROTEIN, PARTIAL CDS N23996                                |  |
| 620 | GF201:96(83D3):384(10G5)    | GLUTATHIONE S-TRANSFERASE M5 AA056232   |  |
| 621 | GF201:96(80F6):384(9K12)    | 325583 AA284243   |  |
| 622 | GF201:96(81G4):384(9N8)     | 244796 N52554   |  |
| 623 | GF201:96(67E2):384(24I3)    | 346321 W74079   |  |
| 624 | GF202:96(111H12):384(15P24) | ESTS, HIGHLY SIMILAR TO SCK [H.SAPIENS] H10072  |  |
| 625 | GF201:96(81C6):384(9F12)    | 364865 AA035745   |  |
| 626 | GF201:96(89H4):384(11P8)    | DOUBLECORTIN AND CAM KINASE-LIKE 1 N34513   |  |
| 627 | GF201:96(62D12):384(22H23)  | 201440 R99105   |  |
| 628 | GF200:96(16B4):384(4D7)     | RIBONUCLEASE L (2',5'-OLIGONUCLEOTIDE SYNTHETASE-DEPENDENT) T60223                        |  |
| 629 | GF201:96(86C7):384(10F13)   | TROPOMYOSIN 2 (BETA) AA477400   |  |
| 630 | GF200:96(6B11):384(2C22)    | SAL (DROSOPHILA)-LIKE 2 H23365  |  |
| 631 | GF200:96(10F4):384(3K8)     | IMPRINTED IN PRADER-WILLI SYNDROME H93815   |  |
| 632 | GF201:96(96G12):384(13M24)  | CANNABINOID RECEPTOR 1 (BRAIN) R20626   |  |

Table 1

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| 633 | GF200:96(19B5):384(5D10)    | CBP/P300-INTERACTING TRANSACTIVATOR, WITH GLU/ASP-RICH CARBOXY-TERMINAL DOMAIN, 1<br>AA432143   |
| 634 | GF201:96(100B6):384(14C12)  | 52684 H29574  |
| 635 | GF200:96(14C11):384(4E22)   | UDP-N-ACETYL-ALPHA-D-GALACTOSAMINE:(N-ACETYLNEURAMINYL)-GALACTOSYLGLUCOSYLCERAMIDE<br>N-ACETYLGALACTOSAMINYLTRANSFERASE (GALNAC-T) R05336 |
| 636 | GF201:96(100A4):384(14A8)   | 51644 H20570  |
| 637 | GF200:96(26D9):384(7G18)    | NUCLEOSOME ASSEMBLY PROTEIN 1-LIKE 3 AA463251   |
| 638 | GF200:96(4D6):384(1H11)     | I FACTOR (COMPLEMENT) N62462  |
| 639 | GF200:96(21G10):384(6M19)   | PATERNALLY EXPRESSED GENE 3 AA459941  |
| 640 | GF200:96(7F2):384(2L4)      | FRIZZLED-RELATED PROTEIN W58032   |
| 641 | GF201:96(65A6):384(23B12)   | 416855 W87281   |
| 642 | GF201:96(100G12):384(14M24) | 60540 T40531  |
| 643 | GF201:96(67C1):384(24E1)    | 503819 AA131664   |
| 644 | GF200:96(16F2):384(4L3)     | PROLINE ARGININE-RICH END LEUCINE-RICH REPEAT PROTEIN AA434342  |
| 645 | GF201:96(100B8):384(14C16)  | 69935 T48692  |
| 646 | GF200:96(16A3):384(4B5)     | S100 CALCIUM-BINDING PROTEIN, BETA (NEURAL) AA424045  |
| 647 | GF200:96(27H11):384(7P22)   | ESTS, WEAKLY SIMILAR TO W01A11.2 GENE PRODUCT [C.ELEGANS] H25606  |
| 648 | GF200:96(27E11):384(7J22)   | 240945 H91000   |
| 649 | GF200:96(32D10):384(8H19)   | GLYCEROL-3-PHOSPHATE DEHYDROGENASE 1 (SOLUBLE) AA192547   |
| 650 | GF200:96(32F10):384(8L19)   | ESTS, HIGHLY SIMILAR TO CARBONIC ANHYDRASE III [H.SAPIENS] AA464880   |
| 651 | PEROU:96(1C10):384(19E19)   | APOLIPOPROTEIN D AA457084   |
| 652 | GF200:96(14D12):384(4G24)   | APOLIPOPROTEIN D H15842   |
| 653 | GF200:96(7F11):384(2L22)    | ELASTIN (SUPRAVALVULAR AORTIC STENOSIS, WILLIAMS-BEUREN SYNDROME) AA459308  |
| 654 | GF200:96(27A3):384(7B6)     | COLLAGEN, TYPE XIV, ALPHA 1; UNIDULIN AA167222  |
| 655 | GF200:96(8H9):384(2P17)     | MESENCHYME HOME BOX 1 AA426311  |
| 656 | GF200:96(4B9):384(1D17)     | INSULIN-LIKE GROWTH FACTOR 1 (SOMATOMEDIN C) AA456321   |
| 657 | PEROU:96(6B1):384(20C2)     | CYCLIN-DEPENDENT KINASE INHIBITOR 1C (P57, KIP2) R81336   |
| 658 | GF201:96(100H7):384(14O14)  | 78946 T61792  |
| 659 | PEROU:96(6E7):384(2D14)     | FATTY ACID BINDING PROTEIN 4, ADIPOCYTE AA046090  |
| 660 | PEROU:96(7A10):384(20B20)   | FATTY ACID BINDING PROTEIN 4, ADIPOCYTE A1652163  |
| 661 | GF201:96(95H10):384(13O19)  | FATTY ACID BINDING PROTEIN 4, ADIPOCYTE N92901  |
| 662 | PEROU:96(8H6):384(20P11)    | MDGI/FATTY ACID BINDING PROTEIN 3, MUSCLE AND HEART AA128926  |
| 663 | PEROU:96(3E4):384(19J8)     | CD36 ANTIGEN (COLLAGEN TYPE I RECEPTOR, THROMBOSPONDIN RECEPTOR) R09416   |
| 664 | GF200:96(14B4):384(4C8)     | CD36 ANTIGEN (COLLAGEN TYPE I RECEPTOR, THROMBOSPONDIN RECEPTOR) R09416   |
| 665 | GF202:96(110B10):384(15C20) | GLUTATHIONE PEROXIDASE 3 (PLASMA) AA664180  |
| 666 | GF200:96(18E1):384(5I2)     | FOUR AND A HALF LIM DOMAINS 1 AA456394  |
| 667 | GF200:96(14G2):384(4M4)     | ALCOHOL DEHYDROGENASE 2 (CLASS I), BETA POLYPEPTIDE N93428  |
| 668 | GF201:96(92H12):384(12O24)  | AQUAPORIN 7 H27752  |
| 669 | GF200:96(18H1):384(5O2)     | 484535 AA036974   |

Table 1

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| 670 | GF201:96(88B9):384(11C18)   | LIPOPROTEIN LIPASE AA633835  |
| 671 | GF200:96(23A7):384(6B14)    | GLYCEROL-3-PHOSPHATE DEHYDROGENASE 1 (SOLUBLE) AA192547                                    |
| 672 | GF200:96(26C1):384(7E2)     | RETINOL-BINDING PROTEIN 4, INTERSTITIAL T72220   |
| 673 | GF201:96(88D12):384(11G24)  | INTEGRIN, ALPHA 7 AA055979   |
| 674 | GF201:96(102A5):384(14B9)   | 85660 T62068   |
| 675 | GF201:96(89B11):384(11D22)  | PHOSPHOLEMMAN H57136   |
| 676 | GF201:96(97H6):384(13P12)   | AQUAPORIN 1 (CHANNEL-FORMING INTEGRAL PROTEIN, 28KD) H24316                                |
| 677 | GF201:96(97H7):384(13P14)   | APOLIPOPROTEIN A-I R97710  |
| 678 | GF200:96(11D12):384(3H24)   | SMALL INDUCIBLE CYTOKINE SUBFAMILY A (CYS-CYS), MEMBER 14 R96668                           |
| 679 | GF200:96(5C8):384(2E15)     | PEROXISOME PROLIFERATIVE ACTIVATED RECEPTOR, GAMMA AA088517                                |
| 680 | GF200:96(13A3):384(4A5)     | ENDOTHELIN RECEPTOR TYPE B H28710  |
| 681 | GF201:96(101F5):384(14L10)  | 79412 T57691   |
| 682 | GF200:96(14H2):384(4O4)     | ACTIVATING TRANSCRIPTION FACTOR 3 H21041   |
| 683 | GF201:96(92D8):384(12G16)   | HORMONE RECEPTOR (GROWTH FACTOR-INDUCIBLE NUCLEAR PROTEIN N10) N94487                      |
| 684 | GF200:96(13B4):384(4C7)     | DOPACHROME TAUTOMERASE (DOPACHROME DELTA-ISOMERASE, TYROSINE-RELATED PROTEIN 2) AA478553   |
| 685 | PEROU:96(7C3):384(20F6)     | P55-C-FOS N36944   |
| 686 | PEROU:96(7D10):384(20H20)   | V-FOS FBJ MURINE OSTEOSARCOMA VIRAL ONCOGENE HOMOLOG AA040944                              |
| 687 | GF201:96(87F1):384(11K1)    | V-FOS FBJ MURINE OSTEOSARCOMA VIRAL ONCOGENE HOMOLOG AA485377                              |
| 688 | GF200:96(22B11):384(6C22)   | FBJ MURINE OSTEOSARCOMA VIRAL ONCOGENE HOMOLOG B T62179                                    |
| 689 | GF201:96(96D8):384(13G16)   | CYCLIN-DEPENDENT KINASE 5, REGULATORY SUBUNIT 1 (P35) AA442853                             |
| 690 | GF200:96(4A5):384(1B9)      | HUMAN TRANSCRIPTION FACTOR JUNB (JUNB) GENE, 5' REGION AND COMPLETE CDS T99236             |
| 691 | GF201:96(86D5):384(10H9)    | TETRAECTIN (PLASMINOGEN-BINDING PROTEIN) W73889  |
| 692 | GF200:96(9B7):384(3C13)     | GTP-BINDING PROTEIN OVEREXPRESSED IN SKELETAL MUSCLE AA418077                              |
| 693 | GF201:96(63B5):384(23C9)    | 502155 AA126676  |
| 694 | GF201:96(98F11):384(13L21)  | ESTS, WEAKLY SIMILAR TO P126 [H.SAPIENS] T51630  |
| 695 | PEROU:96(10A8):384(18B15)   | ESTS, MODERATELY SIMILAR TO IIII ALU SUBFAMILY SQ WARNING ENTRY IIII [H.SAPIENS] H42682    |
| 696 | GF201:96(67C6):384(24E11)   | 300038 N78909  |
| 697 | GF202:96(114G11):384(16M22) | 595078 AA164819  |
| 698 | GF200:96(1B8):384(1C15)     | V-KIT HARDY-ZUCKERMAN 4 FELINE SARCOMA VIRAL ONCOGENE HOMOLOG N20798                       |
| 699 | GF200:96(18A6):384(5A12)    | INHIBITOR OF DNA BINDING 4, DOMINANT NEGATIVE HELIX-LOOP-HELIX PROTEIN AA464856            |
| 700 | GF200:96(5H7):384(20I3)     | CALPONIN 1, BASIC, SMOOTH MUSCLE AA399519  |
| 701 | PEROU:96(8F5):384(20L9)     | ACTIN, GAMMA 2, SMOOTH MUSCLE, ENTERIC AA053297  |
| 702 | PEROU:96(7B5):384(20D10)    | PLEIOTROPHIN (HEPARIN BINDING GROWTH FACTOR 8, NEURITE GROWTH-PROMOTING FACTOR 1) AA001449 |
| 703 | GF200:96(16F12):384(4L23)   | PLEIOTROPHIN (HEPARIN BINDING GROWTH FACTOR 8, NEURITE GROWTH-PROMOTING FACTOR 1) AA001449 |
| 704 | GF200:96(13D12):384(4G23)   | CYSTEINE DIOXYGENASE, TYPE I AA497111  |
| 705 | GF200:96(9H11):384(3O21)    | 27787 R40400   |

Table 1

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| 706 | GF201:96(69C6):384(24F12)   | 220078 H82527  |  |
| 707 | GF201:96(79B4):384(9C7)     | 272038 N31948  |  |
| 708 | GF201:96(100F2):384(14K4)   | SPONDIN 1, (F-SPONDIN) EXTRACELLULAR MATRIX PROTEIN H09099   |  |
| 709 | GF201:96(58E2):384(21J3)    | CATHEPSIN G W92603   |  |
| 710 | GF200:96(18A3):384(5A6)     | HUMAN KRUEPPEL-RELATED ZINC FINGER PROTEIN (H-PLK) MRNA, COMPLETE CDS N54596                         |  |
| 711 | GF201:96(88E4):384(11I8)    | INSULIN-LIKE GROWTH FACTOR 2 (SOMATOMEDIN A) N74623  |  |
| 712 | GF200:96(9A5):384(3A9)      | HUMAN KRUEPPEL-RELATED ZINC FINGER PROTEIN (H-PLK) MRNA, COMPLETE CDS N54596                         |  |
| 713 | GF201:96(95G9):384(13M17)   | PHOSPHORYLASE, GLYCOGEN; MUSCLE (MCARDLE SYNDROME, GLYCOGEN STORAGE DISEASE TYPE V) AA496032         |  |
| 714 | GF201:96(87H7):384(11O13)   | MICROFIBRILLAR-ASSOCIATED PROTEIN 4 AA496022   |  |
| 715 | GF201:96(97E6):384(13J12)   | ALCOHOL DEHYDROGENASE 4 (CLASS II), PL POLYPEPTIDE H63124  |  |
| 716 | GF200:96(1D12):384(1G23)    | HUMAN TCF-1 MRNA FOR T CELL FACTOR 1 (SPICE FORM B) AA480071   |  |
| 717 | GF201:96(96H9):384(13O18)   | TRANSMEMBRANE 4 SUPERFAMILY MEMBER 2 N93505  |  |
| 718 | GF201:96(79E10):384(9I19)   | 782730 AA447978  |  |
| 719 | GF201:96(63E2):384(23I3)    | 212489 H68404  |  |
| 720 | GF201:96(97A1):384(13B2)    | CD1C ANTIGEN, C POLYPEPTIDE AA002086   |  |
| 721 | GF201:96(84B4):384(10C8)    | INTEGRAL MEMBRANE PROTEIN 2C N53447  |  |
| 722 | GF201:96(96B8):384(13C16)   | DIPEPTIDYLPEPTIDASE IV (CD26, ADENOSINE DEAMINASE COMPLEXING PROTEIN 2) W70234                       |  |
| 723 | GF201:96(95F8):384(13K15)   | GLUTAMYL AMINOPEPTIDASE (AMINOPEPTIDASE A) AA102107  |  |
| 724 | GF200:96(1B5):384(1C9)      | ARGININE VASOPRESSIN RECEPTOR 1A AA448190  |  |
| 725 | GF200:96(26F4):384(7K8)     | MATRIX METALLOPROTEINASE 16 (MEMBRANE-INSERTED) H09997   |  |
| 726 | PEROU:96(7A1):384(20B2)     | KIAA0735 AI669959  |  |
| 727 | GF201:96(83A3):384(10A5)    | CATHEPSIN B AA004638   |  |
| 728 | GF200:96(10C5):384(3E10)    | HOMO SAPIENS HYALURONOGLYCOSAMINIDASE 1 (HYAL1) MRNA, COMPLETE CDS AA464791                          |  |
| 729 | PEROU:96(9E2):384(18J4)     | SPARC/OSTEONECTIN AA031596   |  |
| 730 | GF202:96(11ID5):384(15H10)  | ESTS, WEAKLY SIMILAR TO AORTIC CARBOXYPEPTIDASE-LIKE PROTEIN ACLP [H.SAPIENS] AA598945               |  |
| 731 | GF201:96(90B11):384(11D21)  | KIAA0161 GENE PRODUCT W95118   |  |
| 732 | GF201:96(81H8):384(9P16)    | 307645 N93582  |  |
| 733 | GF201:96(99G3):384(14M5)    | 52865 H29620   |  |
| 734 | PEROU:96(6F7):384(20K14)    | ESTS, MODERATELY SIMILAR TO SECRETORY PROTEIN CONTAINING THROMBOSPONDIN MOTIFS [M.MUSCULUS] AA057170 |  |
| 735 | GF200:96(12G11):384(3N21)   | FOLATE RECEPTOR 2 (FETAL) AA453816   |  |
| 736 | GF201:96(95H7):384(13O13)   | FIBROBLAST GROWTH FACTOR 7 (KERATINOCYTE GROWTH FACTOR) AA009609                                     |  |
| 737 | GF200:96(21G12):384(6M23)   | PHOSPHOINOSITIDE-3-KINASE, REGULATORY SUBUNIT, POLYPEPTIDE 1 (P85 ALPHA) R54050                      |  |
| 738 | GF201:96(87G3):384(11M5)    | NERVE GROWTH FACTOR RECEPTOR (TNFR SUPERFAMILY, MEMBER 16) R55303                                    |  |
| 739 | GF201:96(92C9):384(12E18)   | PROLINE-RICH PROTEIN WITH NUCLEAR TARGETING SIGNAL AA669637  |  |
| 740 | GF200:96(3F11):384(1L22)    | V-MYB AVIAN MYELOBLASTOSIS VIRAL ONCOGENE HOMOLOG N49526   |  |
| 741 | GF202:96(116B11):384(16D21) | HUMAN LIVER CARBOXYL ESTERASE MRNA, 3' END T68878  |  |
| 742 | GF200:96(21D5):384(6G9)     | PROTEIN TYROSINE KINASE 2 BETA R85257  |  |

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| 743 | PEROU:96(6G3):384(20M6)     | HHCPA78 HOMOLOG AA044633  |
| 744 | GF200:96(26H3):384(706)     | LPS-INDUCED TNF-ALPHA FACTOR AA625666   |
| 745 | GF201:96(99H5):384(14O9)    | CELLULAR REPRESSOR OF EIA-STIMULATED GENES T71991   |
| 746 | GF201:96(84A4):384(10A8)    | 272262 N35592   |
| 747 | GF200:96(10E2):384(314)     | KIAA0914 GENE PRODUCT N51424  |
| 748 | GF200:96(17F4):384(5K7)     | FATTY-ACID-COENZYME A LIGASE, LONG-CHAIN 1 T73556   |
| 749 | GF201:96(101B6):384(14D12)  | HOMO SAPIENS MRNA; CDNA DKFZP586A0522 (FROM CLONE DKFZP586A0522) T50041   |
| 750 | GF201:96(83B7):384(10C13)   | HOMO SAPIENS MRNA; CDNA DKFZP586A0522 (FROM CLONE DKFZP586A0522) N70948   |
| 751 | PEROU:96(88A):384(20D7)     | MEMBRANE METALLO-ENDOPEPTIDASE (NEUTRAL ENDOPEPTIDASE, ENKEPHALINASE, CALLA, CD10) H65598   |
| 752 | GF200:96(10D2):384(3G4)     | CYCLIN G2 AA489752  |
| 753 | GF200:96(9E4):384(317)      | B-CELL TRANSLOCATION GENE 2 (PHEOCHROMOCYTOMA CELL-3) H69582  |
| 754 | GF201:96(91G4):384(12M7)    | 769796 AA429034   |
| 755 | GF201:96(100H6):384(14Q12)  | 77911 T61269  |
| 756 | GF200:96(23E7):384(6J14)    | SELENOPROTEIN P, PLASMA, 1 AA070226   |
| 757 | PEROU:96(10C7):384(18F13)   | 428431 AA004415   |
| 758 | GF200:96(12F7):384(3L13)    | FUCOSIDASE, ALPHA-L-1, TISSUE N95761  |
| 759 | PEROU:96(8D10):384(20H19)   | HEMOGLOBIN, ALPHA 1 AA027875  |
| 760 | GF201:96(102A3):384(14B5)   | ESTS, WEAKLY SIMILAR TO F56A11.5 [C.ELEGANS] T61938   |
| 761 | GF200:96(16D5):384(4H9)     | PROTEOLIPID PROTEIN (PELIZAEUS-MERZBACHER DISEASE, SPASTIC PARAPLEGIA 2, UNCOMPLICATED) T75041  |
| 762 | GF201:96(96A10):384(13A20)  | EARLY GROWTH RESPONSE 2 (KROX-20 (DROSOPHILA) HOMOLOG) AA446027   |
| 763 | GF201:96(55A8):384(23B16)   | 357396 W93847   |
| 764 | GF201:96(89F10):384(11L20)  | MITOCHONDRIAL 3-OXOACYL-COA THIOLASE H07926   |
| 765 | PEROU:96(6E6):384(20I12)    | MESODERM SPECIFIC TRANSCRIPT (MOUSE) HOMOLOG A1369005   |
| 766 | GF201:96(95G7):384(13M13)   | HUMAN GRANCALCIN MRNA, COMPLETE CDS R44739  |
| 767 | GF200:96(22E10):384(6I20)   | ESTS, MODERATELY SIMILAR TO CADHERIN 12 [H.SAPIENS] AA418564  |
| 768 | GF200:96(9G1):384(3M1)      | ESTS, MODERATELY SIMILAR TO CADHERIN 12 [H.SAPIENS] W02256  |
| 769 | GF200:96(17B1):384(5C1)     | ORNITHINE DECARBOXYLASE 1 AA460115  |
| 770 | GF201:96(57D5):384(21H10)   | HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN H1 (H) R11019   |
| 771 | GF201:96(87B4):384(11C7)    | PROTEIN KINASE, CAMP-DEPENDENT, CATALYTIC, BETA AA018980  |
| 772 | GF201:96(95G1):384(13M1)    | GLUTAMATE DECARBOXYLASE 1 (BRAIN, 67KD) AA018457  |
| 773 | GF200:96(6A10):384(2A20)    | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, N POLYPEPTIDE 2 AA464590   |
| 774 | GF201:96(93G6):384(12N12)   | KIAA0711 GENE PRODUCT AA702544  |
| 775 | GF201:96(63C5):384(23E9)    | HOMO SAPIENS MRNA; CDNA DKFZP564F093 (FROM CLONE DKFZP564F093) W87710   |
| 776 | GF202:96(114G1):384(16M2)   | HOMO SAPIENS DNA SEQUENCE FROM COSMID ICK0721Q ON CHROMOSOME 6. CONTAINS A 60S RIBOSOMAL PROTEIN L35A LIKE PSEUDOGENE, A GENE CODING FOR A 60S RIBOSOMAL PROTEIN L12 LIKE PROTEIN IN AN INTRON OF THE HSET GENE CODING FOR A KINESIN AA457543 |
| 777 | GF202:96(111C12):384(15F24) | 625764 AA188366   |

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| 778 | GF201:96(64E7):384(23114)   | 357298 W93688  |
| 779 | GF201:96(100E12):384(14124) | HNK-1 SULFOTRANSFERASE R16195  |
| 780 | GF201:96(99A9):384(14A17)   | INTERFERON STIMULATED GENE (20KD) AA150500   |
| 781 | GF201:96(56E4):384(2118)    | ESTS, MODERATELY SIMILAR TO TRANSPORTIN [H.SAPIENS] R08897                                     |
| 782 | GF200:96(19G6):384(5N12)    | HUMAN MRNA FOR KIAA0264 GENE, PARTIAL CDS AA486524   |
| 783 | GF201:96(55G2):384(21M3)    | ESTS, HIGHLY SIMILAR TO (DEFINITE NOT AVAILABLE 4894378) [H.SAPIENS] AA453591                  |
| 784 | GF201:96(59D2):384(22G3)    | 365536 AA009596  |
| 785 | GF202:96(116G3):384(16N5)   | ESTS, WEAKLY SIMILAR TO AXONEMAL DYNEIN HEAVY CHAIN [H.SAPIENS] AA486418                       |
| 786 | GF201:96(95B6):384(13C11)   | ESTS, HIGHLY SIMILAR TO NAD(P) TRANSHYDROGENASE [H.SAPIENS] H22944                             |
| 787 | GF201:96(62B12):384(22D23)  | 487436 AA043360  |
| 788 | GF201:96(56C2):384(21E4)    | 342522 W68559  |
| 789 | GF200:96(24G6):384(6N11)    | H.SAPIENS 3' MRNA FOR NEURONE-SPECIFIC ENOLASE (EC 4.2.1.11) AA450189                          |
| 790 | GF201:96(95D6):384(13G12)   | CYSTATHIONINE-BETA-SYNTHASE AA430367   |
| 791 | GF201:96(87E4):384(11I7)    | NUCLEOLAR PROTEIN 1 (120KD) N50854   |
| 792 | GF201:96(83H10):384(10O19)  | ESTS, WEAKLY SIMILAR TO HUENAP [H.SAPIENS] AA122022  |
| 793 | PEROU:96(6A8):384(20A16)    | HOMO SAPIENS MRNA; CDNA DKFZP586C201 (FROM CLONE DKFZP586C201) R12563                          |
| 794 | GF201:96(62D2):384(22H3)    | 503682 AA129974  |
| 795 | GF200:96(1B6):384(1C11)     | VALYL-TRNA SYNTHETASE 1 AA464470   |
| 796 | GF202:96(112A2):384(15B3)   | ESTS, WEAKLY SIMILAR TO ACID PHOSPHATASE [H.SAPIENS] AA160670                                  |
| 797 | GF201:96(99C9):384(14E17)   | 75044 T51856   |
| 798 | GF200:96(15D12):384(4H24)   | THIOREDOXIN REDUCTASE 1 AA453335   |
| 799 | GF201:96(56D5):384(21G10)   | ESTS, WEAKLY SIMILAR TO IIII ALU SUBFAMILY J WARNING ENTRY IIII [H.SAPIENS] AA404276           |
| 800 | GF201:96(85A10):384(10B20)  | IGF-II MRNA-BINDING PROTEIN 3 AA011347   |
| 801 | GF200:96(23B11):384(6D22)   | HIGH-MOBILITY GROUP (NONHISTONE CHROMOSOMAL) PROTEIN ISOFORMS I AND Y AA448261                 |
| 802 | GF201:96(95F1):384(13K1)    | GLYCYL-TRNA SYNTHETASE AA629909  |
| 803 | GF200:96(21H9):384(6O17)    | HOMO SAPIENS CLONE 24636 MRNA SEQUENCE N79230  |
| 804 | GF200:96(9D9):384(3G17)     | CDC6 (CELL DIVISION CYCLE 6, S. CEREVISIAE) HOMOLOG H59203                                     |
| 805 | GF201:96(58F6):384(21L11)   | ESTS, HIGHLY SIMILAR TO TAT BINDING PROTEIN 7, TBP-7 AA464568                                  |
| 806 | GF202:96(112E10):384(15J19) | HOMO SAPIENS MRNA; CDNA DKFZP547C0410 (FROM CLONE DKFZP547C0410) N50079                        |
| 807 | GF200:96(9H6):384(3O11)     | HOMO SAPIENS PESCADILLO MRNA, COMPLETE CDS R13806  |
| 808 | GF200:96(16E10):384(4J19)   | KALLIKREIN 3, (PROSTATE SPECIFIC ANTIGEN) AA490981   |
| 809 | GF200:96(16G8):384(4N15)    | ESTS, HIGHLY SIMILAR TO 6-PHOSPHOGLUCONATE DEHYDROGENASE, DECARBOXYLATING [H.SAPIENS] AA598759 |
| 810 | GF201:96(87F6):384(11K11)   | NUCLEOPHOSMIN (NUCLEOLAR PHOSPHOPROTEIN B23, NUMATRIN) AA669758                                |
| 811 | GF201:96(90C11):384(11F21)  | E2F TRANSCRIPTION FACTOR 3 N92519  |
| 812 | GF200:96(7E12):384(2J24)    | GAMMA-GLUTAMYL HYDROLASE (CONJUGASE, FOLYLPOLYGAMMAGLUTAMYL HYDROLASE) AA455800                |
| 813 | GF200:96(13G6):384(4M11)    | CENTROMERE PROTEIN E (312KD) AA402431  |
| 814 | GF200:96(7B2):384(2D4)      | KIAA0042 GENE PRODUCT AA477501   |

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| 815 | GF200:96(13E4):384(417)    | CYCLIN B1 R25788  |
| 816 | GF201:96(96G1):384(13M2)   | CELL DIVISION CYCLE 25C W95001  |
| 817 | GF200:96(5G1):384(2M1)     | PROTEASOME (PROSOME, MACROPAIN) 26S SUBUNIT, NON-ATPASE, 12 AA497132  |
| 818 | GF200:96(21C2):384(6E3)    | HUMAN CLONE 23799 MRNA SEQUENCE AA489007  |
| 819 | GF201:96(99B5):384(14C9)   | HOMO SAPIENS CLONE 24703 BETA-TUBULIN MRNA, COMPLETE CDS AA427899   |
| 820 | GF200:96(17C7):384(5E13)   | METHYLENE TETRAHYDROFOLATE DEHYDROGENASE (NAD+ DEPENDENT),<br>METHENYL TETRAHYDROFOLATE CYCLOHYDROLASE AA480995 |
| 821 | GF201:96(82D11):384(9H21)  | 430186 AA010188   |
| 822 | GF201:96(87G10):384(11M19) | MUTT (E. COLI) HUMAN HOMOLOG (8-OXO-7,8-DIHYDROGUANOSINE TRIPHOSPHATASE) AA443998                               |
| 823 | GF201:96(87A10):384(11A19) | RIBONUCLEOTIDE REDUCTASE M1 POLYPEPTIDE AA633549  |
| 824 | GF200:96(10H6):384(30I2)   | HIGH-MOBILITY GROUP (NONHISTONE CHROMOSOMAL) PROTEIN 2 AA019511   |
| 825 | GF200:96(11A6):384(3B12)   | HOMO SAPIENS CLONE 24782 UNKNOWN MRNA AA430545  |
| 826 | GF201:96(63E12):384(23I23) | 126449 R06706   |
| 827 | GF201:96(98A5):384(13B9)   | APOPTOSIS INHIBITOR 4 (SURVIVIN) AA460685   |
| 828 | GF200:96(13H12):384(4O23)  | CTP SYNTHASE H09614   |
| 829 | GF201:96(93F10):384(12L20) | BYSTIN-LIKE AA701929  |
| 830 | GF201:96(64G8):384(23M16)  | 258761 N30185   |
| 831 | PEROU:96(4B1):384(19D1)    | PLASMINOGEN (CONTAINS ANGIOSTATIN) R91118   |
| 832 | PEROU:96(7C2):384(20F4)    | KIAA0101 GENE PRODUCT N29873  |
| 833 | GF200:96(10D8):384(3G16)   | CHK1 (CHECKPOINT, S.POMBE) HOMOLOG N73242   |
| 834 | GF201:96(58D3):384(21H5)   | TOPOISOMERASE (DNA) II ALPHA (170KD) AA026682   |
| 835 | GF201:96(57D4):384(21H8)   | KIAA0008 GENE PRODUCT W93717  |
| 836 | PEROU:96(8H9):384(20P17)   | ANTIGEN IDENTIFIED BY MONOCLONAL ANTIBODY KI-67 AA004872  |
| 837 | GF200:96(1E5):384(119)     | TISSUE INHIBITOR OF METALLOPROTEINASE 1 (ERYTHROID POTENTIATING ACTIVITY, COLLAGENASE INHIBITOR) H80215         |
| 838 | GF200:96(15D4):384(4H8)    | ESTS, HIGHLY SIMILAR TO TOPOISOMERASE II ALPHA {C-TERMINAL} [H.SAPIENS] AA504348                                |
| 839 | GF202:96(109F7):384(15K13) | TRAF INTERACTING PROTEIN AA186427   |
| 840 | GF201:96(96C9):384(13E18)  | HOMO SAPIENS MRNA; CDNA DKFZP434F222 (FROM CLONE DKFZP434F222) AA680129   |
| 841 | GF200:96(3E7):384(1J14)    | MINICHROMOSOME MAINTENANCE DEFICIENT (S. CEREVISIAE) 3 AA455786   |
| 842 | GF201:96(90B10):384(11D19) | KIAA0166 GENE PRODUCT AA157787  |
| 843 | GF201:96(87F8):384(11K15)  | NUCLEAR AUTOANTIGENIC SPERM PROTEIN (HISTONE-BINDING) AA644128  |
| 844 | GF200:96(22D3):384(6G6)    | DEAD/H (ASP-GLU-ALA-ASP/HIS) BOX POLYPEPTIDE 11 (S.CEREVISIAE CHL1-LIKE HELICASE) AA402879                      |
| 845 | GF200:96(10E1):384(3I2)    | DEAD/H (ASP-GLU-ALA-ASP/HIS) BOX POLYPEPTIDE 11 (S.CEREVISIAE CHL1-LIKE HELICASE) AA032090                      |
| 846 | GF201:96(89C4):384(11F8)   | MINICHROMOSOME MAINTENANCE DEFICIENT (MISS, S. POMBE) 6 AA663995  |
| 847 | GF200:96(13C12):384(4E23)  | DNA (CYTOSINE-5-) METHYLTRANSFERASE 1 N43930  |
| 848 | GF201:96(102B1):384(14D1)  | ESTS, MODERATELY SIMILAR TO !!! ALU SUBFAMILY 3 WARNING ENTRY !!!! [H.SAPIENS] T63980                           |
| 849 | GF200:96(21A5):384(6A9)    | ENHANCER OF ZESTE (DROSOPHILA) HOMOLOG 2 AA430744   |



Table 1

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| 850 | GF201:96(99E1):384(1411)   | REPLICATION FACTOR C (ACTIVATOR 1) 4 (37KD) N93924                                     |
| 851 | GF200:96(15B4):384(4D8)    | V-MYB AVIAN MYELOBLASTOSIS VIRAL ONCOGENE HOMOLOG-LIKE 2 AA456878                      |
| 852 | GF201:96(86H10):384(10P19) | RIBONUCLEOTIDE REDUCTASE M2 POLYPEPTIDE AA187351                                       |
| 853 | GF201:96(58D7):384(21H13)  | CDC28 PROTEIN KINASE 2 AA010065  |
| 854 | GF200:96(25H3):384(705)    | CDC28 PROTEIN KINASE 2 AA397813  |
| 855 | GF201:96(98D1):384(13H1)   | PITUITARY TUMOR-TRANSFORMING 1 AA430032  |
| 856 | GF200:96(4E4):384(1J7)     | HUMAN UBIQUITIN CARRIER PROTEIN (E2-EPF) MRNA, COMPLETE CDS AA464729                   |
| 857 | GF201:96(88A12):384(11A24) | ESTS, HIGHLY SIMILAR TO MITOTIC KINESIN-LIKE PROTEIN-1 [H.SAPIENS] AA454098            |
| 858 | GF200:96(26C11):384(7E22)  | TROPHININ-ASSISTING PROTEIN (TASTIN) H94949  |
| 859 | GF200:96(18H3):384(506)    | CELL DIVISION CYCLE 20, S.CEREVISIAE HOMOLOG AA598776                                  |
| 860 | GF202:96(109B4):384(15C7)  | HOMO SAPIENS MRNA FOR KIAA0788 PROTEIN, PARTIAL CDS AA676460                           |
| 861 | GF201:96(94C2):384(12F3)   | HOMO SAPIENS HPV16 E1 PROTEIN BINDING PROTEIN MRNA, COMPLETE CDS AA630784              |
| 862 | GF201:96(92B8):384(12C16)  | CENTROMERE PROTEIN F (350/400KD, MITOSIN) AA701455                                     |
| 863 | GF201:96(59D12):384(22G23) | 782283 AA432248  |
| 864 | GF200:96(22E1):384(6I2)    | POLYMYOSITIS/SCLERODERMA AUTOANTIGEN 1 (75KD) AA458994                                 |
| 865 | GF200:96(25C6):384(7E11)   | CYCLIN A2 AA608568   |
| 866 | GF200:96(25E10):384(71I9)  | HOMO SAPIENS MRNA FOR CDC2 DELTA T, COMPLETE CDS AA598974                              |
| 867 | GF201:96(92E2):384(12I4)   | PROTEIN KINASE MITOGEN- ACTIVATED 13 AA157499  |
| 868 | GF201:96(92F2):384(12K4)   | POLO (DROSOPHILA)-LIKE KINASE AA629262   |
| 869 | GF200:96(7A8):384(2B16)    | HUMAN MRNA FOR KIAA0074 GENE, PARTIAL CDS N54344                                       |
| 870 | GF201:96(92E6):384(12I12)  | BUDDING UNINHIBITED BY BENZIMIDAZOLES 1 (YEAST HOMOLOG) AA446462                       |
| 871 | GF200:96(25H4):384(707)    | MINICHROMOSOME MAINTENANCE DEFICIENT (S. CEREVISIAE) 4 AA485983                        |
| 872 | GF202:96(110C1):384(15E2)  | FLAP STRUCTURE-SPECIFIC ENDONUCLEASE 1 AA620553  |
| 873 | PEROU:96(788):384(20D16)   | 236142 H61303  |
| 874 | GF200:96(22A8):384(6A16)   | FORKHEAD (DROSOPHILA)-LIKE 16 AA129552   |
| 875 | GF200:96(10A8):384(3A16)   | ESTS, HIGHLY SIMILAR TO SERINE/THREONINE KINASE [H.SAPIENS] R19158                     |
| 876 | GF200:96(15G5):384(4N10)   | SMALL NUCLEAR RIBONUCLEOPROTEIN POLYPEPTIDES B AND B1 AA599116                         |
| 877 | PEROU:96(3F10):384(19L20)  | PROLIFERATING CELL NUCLEAR ANTIGEN H13004  |
| 878 | GF200:96(16F3):384(4L5)    | PROLIFERATING CELL NUCLEAR ANTIGEN AA450265  |
| 879 | GF201:96(59C9):384(22E17)  | CALMODULIN 1 (PHOSPHORYLASE KINASE, DELTA) R76554                                      |
| 880 | GF202:96(109C3):384(15E5)  | NON-METASTATIC CELLS 1, PROTEIN (NM23A) EXPRESSED IN AA644092                          |
| 881 | GF201:96(86E5):384(10J9)   | HUMAN MRNA FOR KIAA0098 GENE, PARTIAL CDS AA629692                                     |
| 882 | GF202:96(116G8):384(16N15) | PROLIFERATION-ASSOCIATED 2G4, 38KD AA488332  |
| 883 | GF200:96(1C3):384(1E5)     | URACIL-DNA GLYCOSYLASE H15111  |
| 884 | GF201:96(88A9):384(11A18)  | MULTIFUNCTIONAL POLYPEPTIDE SIMILAR TO SAICAR SYNTHETASE AND AIR CARBOXYLASE N33274    |
| 885 | GF202:96(113E7):384(16I13) | ESTS, WEAKLY SIMILAR TO !!!!! ALU SUBFAMILY J WARNING ENTRY !!!!! [H.SAPIENS] AA088458 |
| 886 | GF201:96(90F3):384(11L5)   | MEMBRANE-ASSOCIATED TYROSINE- AND THREONINE-SPECIFIC CDC2-INHIBITORY KINASE AA478066   |
| 887 | GF200:96(5G12):384(2M23)   | 292933 N69491  |

Table 1

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| 888 | GF201:96(96B11):384(13C22)  | H.SAPIENS DHFR GENE, EXONS 1 & 2, AND JOINED CDS R00884  |
| 889 | GF200:96(29B2):384(8C3)     | Z44205 N52980  |
| 890 | GF200:96(25B2):384(7C3)     | PRIMASE, POLYPEPTIDE 1 (49KD) AA025937   |
| 891 | GF201:96(90B12):384(11D23)  | KIAA0159 GENE PRODUCT AA668256   |
| 892 | GF200:96(17F10):384(5K19)   | LAMIN B2 AA456868  |
| 893 | GF201:96(86D3):384(10H5)    | HOMO SAPIENS GENE FOR THYMIDYLATE SYNTHASE, EXONS 1, 2, 3, 4, 5, 6, 7, COMPLETE CDS<br>AA663310                  |
| 894 | PEROU:96(7H9):384(20P18)    | MCM5/CDC46 HOMOLOG AA075920  |
| 895 | GF201:96(93B8):384(12D16)   | CDC7 (CELL DIVISION CYCLE 7, S. CEREVISIAE, HOMOLOG)-LIKE 1 N62245   |
| 896 | GF201:96(67C5):384(24E9)    | EUKARYOTIC TRANSLATION ELONGATION FACTOR 1 EPSILON 1 N91962  |
| 897 | GF200:96(23D12):384(6H24)   | TRANSILIN AA461231   |
| 898 | GF200:96(4D9):384(1H17)     | HYALURONAN-MEDIATED MOTILITY RECEPTOR (RHAMM) R10284   |
| 899 | GF201:96(96D9):384(13G18)   | CYCLIN F AA676797  |
| 900 | GF200:96(31E12):384(8J24)   | ESTS, HIGHLY SIMILAR TO TOPOISOMERASE II ALPHA {C-TERMINAL} [H.SAPIENS] AA504348                                 |
| 901 | GF201:96(96D10):384(13G20)  | CYCLIN E1 T54121   |
| 902 | GF201:96(58B3):384(21D5)    | TRANSCRIPTION FACTOR COUP 2 (CHICKEN OVALBUMIN UPSTREAM PROMOTER 2, APOLIPOPROTEIN<br>REGULATORY PROTEIN) R89308 |
| 903 | GF202:96(115A5):384(16B10)  | TYROSYL-TRNA SYNTHETASE AA102053   |
| 904 | GF202:96(111C7):384(15F14)  | HOMO SAPIENS EXPORTIN T MRNA, COMPLETE CDS AA211459  |
| 905 | GF201:96(89C9):384(11F18)   | ORIGIN RECOGNITION COMPLEX, SUBUNIT 1 (YEAST HOMOLOG)-LIKE R83277  |
| 906 | GF200:96(19A11):384(5B22)   | MAD2 (MITOTIC ARREST DEFICIENT, YEAST, HOMOLOG)-LIKE 1 AA481076  |
| 907 | GF201:96(89G1):384(11N2)    | HOMO SAPIENS DNA FOR APOER2 W80637   |
| 908 | GF200:96(15G7):384(4N14)    | SMALL NUCLEAR RIBONUCLEOPROTEIN POLYPEPTIDE B" AA521249  |
| 909 | GF201:96(80C12):384(9E24)   | 770898 AA434411  |
| 910 | GF202:96(113A7):384(16A13)  | ESTS, HIGHLY SIMILAR TO (DEFINITE NOT AVAILABLE 487775) [H.SAPIENS] AA126951                                     |
| 911 | GF200:96(26D4):384(7G8)     | PHORBOLIN (SIMILAR TO APOLIPOPROTEIN B MRNA EDITING PROTEIN) T64880  |
| 912 | GF202:96(116A6):384(16B11)  | ESTS, WEAKLY SIMILAR TO PREGNANCY ZONE PROTEIN PRECURSOR [H.SAPIENS] AA600184                                    |
| 913 | GF202:96(112G10):384(15N19) | ESTS, WEAKLY SIMILAR TO POTENT HEAT-STABLE PROTEIN PHOSPHATASE 2A INHIBITOR 11PP2A<br>[H.SAPIENS] AA130596       |
| 914 | GF200:96(23D11):384(6H22)   | CELL DIVISION CYCLE 25B H14343   |
| 915 | GF200:96(17E12):384(5I23)   | CELL DIVISION CYCLE 25B AA448755   |
| 916 | GF200:96(11F5):384(3L10)    | CHLORIDE CHANNEL, NUCLEOTIDE-SENSITIVE, 1A T52435  |
| 917 | GF202:96(109A7):384(15A13)  | THREONYL-TRNA SYNTHETASE AA630628  |
| 918 | PEROU:96(2A10):384(19A20)   | TRANSFERRIN RECEPTOR (P90, CD71) N27985  |
| 919 | GF200:96(24D4):384(6H7)     | GLUTAMIC-OXALOACETIC TRANSAMINASE 1, SOLUBLE (ASPARTATE AMINOTRANSFERASE 1) H22856                               |
| 920 | GF201:96(62E6):384(22J11)   | 308495 N95558  |
| 921 | GF201:96(58D12):384(21H23)  | CENTROMERE PROTEIN F (350/400KD, MITOSIN) T87341   |
| 922 | GF201:96(80E5):384(9I10)    | 811069 AA485454  |
| 923 | GF201:96(87F5):384(11K9)    | NUCLEOSIDE PHOSPHORYLASE AA430382  |

Table 1

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| 924 | GF202:96(112F1):384(15L21):731218 AA416724 |  |
| 925 | GF201:96(89D12):384(11H24)                 | SOLUTE CARRIER FAMILY 16 (MONOCARBOXYLIC ACID TRANSPORTERS), MEMBER 3 AA129777   |
| 926 | GF202:96(110D1):384(15G2)                  | ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY 5Q WARNING ENTRY !!!! [H.SAPIENS] AA186804  |
| 927 | GF200:96(16G10):384(4N19)                  | PHOSPHOFRUCTOKINASE, PLATELET AA608558   |
| 928 | GF202:96(116G10):384(16N19)                | 511647 AA126947  |
| 929 | GF200:96(4C4):384(1F7)                     | PROTEOLIPID PROTEIN 2 (COLONIC EPITHELIUM-ENRICHED) AA464627   |
| 930 | GF200:96(9F10):384(3K19)                   | PROTEIN DISULFIDE ISOMERASE RELATED PROTEIN (CALCIUM-BINDING PROTEIN, INTESTINAL-RELATED) N59626   |
| 931 | PEROU:96(7E12):384(20J24)                  | HEAT SHOCK 70KD PROTEIN 4 R85253   |
| 932 | GF201:96(97F2):384(13L4)                   | ADDUCIN 3 (GAMMA) AA461325   |
| 933 | GF201:96(88D2):384(11G4)                   | INTERLEUKIN 7 RECEPTOR AA485865  |
| 934 | GF201:96(92B10):384(12C20)                 | CYCLIN-DEPENDENT KINASE INHIBITOR 2C (P18, INHIBITS CDK4) N72115   |
| 935 | GF201:96(95A4):384(13A7)                   | ADIPOSE DIFFERENTIATION-RELATED PROTEIN; ADIPOPHILIN AA700054  |
| 936 | GF201:96(83F6):384(10K11)                  | ESTS, WEAKLY SIMILAR TO CDNA EST EMBL:D70402 COMES FROM THIS GENE [C.ELEGANS] N62924   |
| 937 | GF201:96(83G3):384(10M5)                   | ESTS, HIGHLY SIMILAR TO DEDUCED PROTEIN PRODUCT SHOWS SIGNIFICANT HOMOLOGY TO COACTOSIN FROM DICTYOSTELIUM DISCOIDEUM [H.SAPIENS] R78530 |
| 938 | GF201:96(95G12):384(13M23)                 | INTERFERON, GAMMA-INDUCIBLE PROTEIN 30 AA630800  |
| 939 | GF201:96(95F12):384(13K23)                 | GLUTAMATE DECARBOXYLASE 2 (PANCREATIC ISLETS AND BRAIN, 65KD) R44005   |
| 940 | GF200:96(29G9):384(8M17)                   | SOLUTE CARRIER FAMILY 7 (CATIONIC AMINO ACID TRANSPORTER, Y+ SYSTEM), MEMBER 7 T98394  |
| 941 | PEROU:96(6B7):384(20C14)                   | CHEMOKINE (C-X-C MOTIF), RECEPTOR 4 (FUSIN) AA479467   |
| 942 | GF200:96(2A3):384(1A6)                     | SMALL INDUCIBLE CYTOKINE A4 (HOMOLOGOUS TO MOUSE MIP-1B) H62985  |
| 943 | GF201:96(83G5):384(10M9)                   | ESTS, WEAKLY SIMILAR TO PUTATIVE P150 [H.SAPIENS] R74478   |
| 944 | GF200:96(6F10):384(2K20)                   | ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SX WARNING ENTRY !!!! [H.SAPIENS] T94293  |
| 945 | GF200:96(8B7):384(2D13)                    | CHITINASE 1 T94272   |
| 946 | GF200:96(8A6):384(2B11)                    | 53341 R15934   |
| 947 | GF200:96(10B8):384(3C16)                   | SMALL INDUCIBLE CYTOKINE SUBFAMILY A (CYS-CYS), MEMBER 18, PULMONARY AND ACTIVATION-REGULATED AA495985                                   |
| 948 | GF200:96(10C8):384(3E16)                   | FOLYPOLYGLUTAMATE SYNTHASE R44864  |
| 949 | PEROU:96(6D4):384(20G8)                    | LYSOZYME (RENAL AMYLOIDOSIS) N63943  |
| 950 | GF201:96(88B6):384(11C12)                  | LYSOZYME (RENAL AMYLOIDOSIS) N63943  |
| 951 | GF201:96(86C12):384(10F23)                 | TRANSCRIPTION FACTOR AP-2 ALPHA (ACTIVATING ENHANCER-BINDING PROTEIN 2 ALPHA) N63770   |
| 952 | GF201:96(88B10):384(11C20)                 | LIPASE A, LYSOSOMAL ACID, CHOLESTEROL ESTERASE (WOLMAN DISEASE) AA630104   |
| 953 | GF200:96(25H8):384(70L5)                   | CD68 ANTIGEN AA421296  |
| 954 | GF200:96(14H7):384(40I4)                   | ACID PHOSPHATASE 5, TARTRATE RESISTANT R08816  |
| 955 | PEROU:96(6B2):384(20C4)                    | FC FRAGMENT OF IGE, HIGH AFFINITY 1, RECEPTOR FOR; GAMMA POLYPEPTIDE R79170  |
| 956 | GF202:96(114H10):384(16O20)                | CATHEPSIN Z AA488341   |
| 957 | GF200:96(14A4):384(4A8)                    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DM ALPHA H42679  |
| 958 | GF201:96(94E9):384(12J17)                  | HUMAN MRNA FOR SB CLASSII HISTOCOMPATIBILITY ANTIGEN ALPHA-CHAIN AA634028  |
| 959 | GF200:96(17E1):384(5I1)                    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DP BETA 1 AA486627   |

Table 1

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| 960 | GF200:96(26C5):384(7E10)    | HUMAN MHC CLASS II DQ-ALPHA ASSOCIATED WITH DRW6, DQW1 PROTEIN, COMPLETE CDS, CLONE B T63324                                   |
| 961 | GF200:96(17E10):384(5I19)   | HUMAN MHC CLASS II DQ-ALPHA ASSOCIATED WITH DRW6, DQW1 PROTEIN, COMPLETE CDS, CLONE B T63324                                   |
| 962 | GF200:96(17F1):384(5K1)     | LYSYL OXIDASE AA452916   |
| 963 | GF200:96(8H10):384(2P19)    | HUMAN MHC CLASS II DQ-BETA ASSOCIATED WITH DR2, DQW1 PROTEIN, COMPLETE CDS AA458472  |
| 964 | GF200:96(32C10):384(8F19)   | 121275 T96731  |
| 965 | GF201:96(63A7):384(23A13)   | HOMO SAPIENS MRNA FOR KIAA0937 PROTEIN, PARTIAL CDS AA043790   |
| 966 | GF201:96(88B3):384(11C6)    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DR BETA 1 AA664195   |
| 967 | PEROU:96(6C5):384(20E10)    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DR BETA 5 H52245   |
| 968 | GF201:96(88A2):384(11A4)    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DR BETA 5 AA485739   |
| 969 | PEROU:96(6D9):384(20G18)    | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS II, DR BETA 5 AA037380   |
| 970 | GF200:96(11A10):384(3B20)   | HUMAN HLA-DR ALPHA-CHAIN MRNA R47979   |
| 971 | PEROU:96(8A12):384(20B23)   | KIAA0855 ATG636699   |
| 972 | GF200:96(15A12):384(4B24)   | VASCULAR CELL ADHESION MOLECULE 1 H16637   |
| 973 | GF200:96(1B4):384(1C7)      | VASCULAR CELL ADHESION MOLECULE 1 H07071   |
| 974 | GF200:96(11F3):384(3L6)     | MACROPHAGE-ASSOCIATED ANTIGEN AA401693   |
| 975 | GF200:96(3H9):384(1P18)     | FC FRAGMENT OF IGG, LOW AFFINITY IIIA, RECEPTOR FOR (CD16) H20872  |
| 976 | GF201:96(58D9):384(21H17)   | ESTS, HIGHLY SIMILAR TO COMPLEMENT C1Q SUBCOMPONENT, C CHAIN PRECURSOR [H.SAPIENS] N38801                                      |
| 977 | GF200:96(32F6):384(8L11)    | ESTS, HIGHLY SIMILAR TO COMPLEMENT C1Q SUBCOMPONENT, C CHAIN PRECURSOR [H.SAPIENS] N90491                                      |
| 978 | GF200:96(25D6):384(7G11)    | COMPLEMENT COMPONENT 1, Q SUBCOMPONENT, BETA POLYPEPTIDE T71284  |
| 979 | GF200:96(25D1):384(7G1)     | COMPLEMENT COMPONENT 2 T71879  |
| 980 | GF201:96(94H11):384(12P21)  | FIBRINOGEN-LIKE PROTEIN 2 H56349   |
| 981 | GF201:96(93A10):384(12B20)  | HOMO SAPIENS MRNA FOR KIAA0290 GENE, PARTIAL CDS AA400186  |
| 982 | GF201:96(97F3):384(13L6)    | ADDUCIN 2 (BETA) AA019320  |
| 983 | GF200:96(12D6):384(3H11)    | GLUCAN (1,4-ALPHA-), BRANCHING ENZYME 1 (GLYCOGEN BRANCHING ENZYME, ANDERSEN DISEASE, GLYCOGEN STORAGE DISEASE TYPE IV) R09069 |
| 984 | GF200:96(9F11):384(3K21)    | GOLGI AUTOANTIGEN, GOLGIN SUBFAMILY A, 2 AA495724  |
| 985 | GF200:96(12D2):384(3H3)     | GLUCOSE-6-PHOSPHATE DEHYDROGENASE AA424937   |
| 986 | GF200:96(23F6):384(6L12)    | T-CELL ACTIVATION PROTEIN, EB1 FAMILY AA608576   |
| 987 | GF201:96(84A8):384(10A16)   | 133518 R28608  |
| 988 | GF200:96(2F12):384(1K24)    | PROTEIN KINASE C, ALPHA AA030029   |
| 989 | GF200:96(3E10):384(1J20)    | MEMBRANE PROTEIN, PALMITOYLATED 1 (55KD) W01240  |
| 990 | GF201:96(09F5):384(14K9)    | 52128 H22568   |
| 991 | GF202:96(116C10):384(16F19) | 34294 R44346   |
| 992 | GF200:96(12F6):384(3L11)    | FUCOSYLTRANSFERASE 4 (ALPHA (1,3) FUCOSYLTRANSFERASE, MYELOID-SPECIFIC) R28447   |
| 993 | GF201:96(63G12):384(23M23)  | 366778 AA029722  |

Table 1

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| 994  | GF201:96(83F9):384(10K17)   | 491644 AA150263   |  |
| 995  | GF200:96(26G5):384(7M10)    | NOVEL HUMAN GENE MAPPING TO CHOMOSOME 13 AA488718   |  |
| 996  | GF200:96(21F12):384(6K23)   | IQ MOTIF CONTAINING GTPASE ACTIVATING PROTEIN 2 W32272  |  |
| 997  | GF201:96(97A2):384(13B4)    | CD1D ANTIGEN, D POLYPEPTIDE AA451684  |  |
| 998  | GF202:96(109A10):384(15A19) | SMALL INDUCIBLE CYTOKINE A5 (RANTES) AA486072   |  |
| 999  | GF200:96(12B9):384(3D17)    | NATURAL KILLER CELL GROUP 7 SEQUENCE T57859   |  |
| 1000 | GF201:96(86D10):384(10H19)  | TRYPTOPHANYL-TRNA SYNTHETASE AA664040   |  |
| 1001 | GF201:96(88D9):384(11G18)   | INTERCELLULAR ADHESION MOLECULE 1 (CD54), HUMAN RHINOVIRUS RECEPTOR R77293                        |  |
| 1002 | GF200:96(17A11):384(5A21)   | 768638 AA425352   |  |
| 1003 | PEROU:96(6A5):384(20A10)    | SMALL INDUCIBLE CYTOKINE A2 (MONOCYTE CHEMOTACTIC PROTEIN 1, HOMOLOGOUS TO MOUSE SIG-JE) T77817   |  |
| 1004 | GF200:96(2A4):384(1A8)      | SMALL INDUCIBLE CYTOKINE A2 (MONOCYTE CHEMOTACTIC PROTEIN 1, HOMOLOGOUS TO MOUSE SIG-JE) AA425102 |  |
| 1005 | GF200:96(5E4):384(2I7)      | SMALL INDUCIBLE CYTOKINE SUBFAMILY A (CYS-CYS), MEMBER 13 T64134                                  |  |
| 1006 | GF201:96(86F11):384(10L21)  | SMALL INDUCIBLE CYTOKINE SUBFAMILY A (CYS-CYS), MEMBER 11 (EOTAXIN) W69211                        |  |
| 1007 | GF201:96(92G4):384(12M8)    | LEUKOCYTE IMMUNOGLOBULIN-LIKE RECEPTOR 2 H54023   |  |
| 1008 | GF201:96(98G1):384(13N1)    | HOMO SAPIENS MRNA FOR KILLER ACTIVATING RECEPTOR ASSOCIATED PROTEIN, ISOFORM B H12338             |  |
| 1009 | GF200:96(26F12):384(7K24)   | FC FRAGMENT OF IGE, HIGH AFFINITY I, RECEPTOR FOR; GAMMA POLYPEPTIDE H79353                       |  |
| 1010 | GF202:96(109D3):384(15G5)   | INTEGRIN, ALPHA X (ANTIGEN CD11C (P150), ALPHA POLYPEPTIDE) N64384                                |  |
| 1011 | GF201:96(88D11):384(11G22)  | 754406 AA436187   |  |
| 1012 | GF201:96(95H9):384(13O17)   | FC FRAGMENT OF IGG, LOW AFFINITY IIA, RECEPTOR FOR (CD32) AA634109                                |  |
| 1013 | GF200:96(25E12):384(7I23)   | CATHEPSIN S AA236164  |  |
| 1014 | GF200:96(1H9):384(1O17)     | SOLUTE CARRIER FAMILY 2 (FACILITATED GLUCOSE TRANSPORTER), MEMBER 5 H38650                        |  |
| 1015 | GF200:96(12D8):384(3H15)    | GARDNER-RASHEED FELINE SARCOMA VIRAL (V-FGR) ONCOGENE HOMOLOG AA256231                            |  |
| 1016 | GF201:96(97B12):384(13D24)  | BACTERICIDAL/PERMEABILITY-INCREASING PROTEIN AA680249   |  |
| 1017 | GF202:96(112B9):384(15D17)  | 783959 AA447383   |  |
| 1018 | GF200:96(14F5):384(4K10)    | AMINOLEVULINATE, DELTA-, SYNTHASE 1 AA453691  |  |
| 1019 | GF201:96(87G9):384(11M17)   | MYELOPEROXIDASE AA703058  |  |
| 1020 | GF201:96(94A3):384(12B5)    | KIAA0443 GENE PRODUCT AA702949  |  |
| 1021 | GF201:96(87G8):384(11M15)   | N-ACETYLTRANSFERASE, HOMOLOG OF S. CEREVISIAE ARD1 R55220   |  |
| 1022 | GF200:96(28B12):384(7D23)   | ESTS, WEAKLY SIMILAR TO DJ79C4.1.2 [H.SAPIENS] R69179   |  |
| 1023 | GF201:96(94E10):384(12J19)  | HEMOGLOBIN, ZETA N59636   |  |
| 1024 | GF201:96(55A4):384(21A7)    | PHOSPHOLIPASE C, BETA 2 AA464970  |  |
| 1025 | GF200:96(27D10):384(7H20)   | ESTS, WEAKLY SIMILAR TO E25B PROTEIN [M.MUSCULUS] AA034213  |  |
| 1026 | GF201:96(95D8):384(13G15)   | CORE-BINDING FACTOR, RUNT DOMAIN, ALPHA SUBUNIT 3 N67778  |  |
| 1027 | GF201:96(102H7):384(14P13)  | 40296 R52082  |  |
| 1028 | GF200:96(11B6):384(3D12)    | RHO GTPASE ACTIVATING PROTEIN 4 H69620  |  |
| 1029 | GF200:96(11H1):384(3P2)     | RAS HOMOLOG GENE FAMILY, MEMBER H W38571  |  |

Table 1

|      |                             |   |
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| 1030 | GF202:96(116B7):384(16D13)  | HOMO SAPIENS IMMUNOGLOBULIN-LIKE TRANSCRIPT 7 MRNA, COMPLETE CDS N62837   |
| 1031 | GF200:96(23C6):384(6F12)    | HEMOPOIETIC CELL KINASE AA149096  |
| 1032 | GF200:96(17A1):384(5A1)     | CHEMOKINE (C-X-C MOTIF), RECEPTOR 4 (FUSIN) T62491  |
| 1033 | GF200:96(4A11):384(1B21)    | INTERCELLULAR ADHESION MOLECULE 3 AA478647  |
| 1034 | GF201:96(100F4):384(14K8)   | 50619 H17517  |
| 1035 | GF202:96(110D9):384(15G18)  | 742569 AA400074   |
| 1036 | PEROU:96(6F11):384(20K22)   | LYMPHOCYTE CYTOSOLIC PROTEIN 1 AA044266   |
| 1037 | GF201:96(88B8):384(11C16)   | ESTS, HIGHLY SIMILAR TO L-PLASTIN [H.SAPIENS] W73144  |
| 1038 | GF200:96(15G1):384(4N2)     | SPLEEN TYROSINE KINASE AA598572   |
| 1039 | GF201:96(89A3):384(11B6)    | RIBONUCLEASE, RNASE A FAMILY, K6 AA701545   |
| 1040 | GF200:96(2E10):384(1I20)    | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, C POLYPEPTIDE H74265   |
| 1041 | GF200:96(4A7):384(1B13)     | INTERLEUKIN 2 RECEPTOR, GAMMA (SEVERE COMBINED IMMUNODEFICIENCY) N75745   |
| 1042 | GF200:96(9D8):384(3G15)     | CLK-ASSOCIATING RS-CYCLOPHILIN H14513   |
| 1043 | GF202:96(116A8):384(16B15)  | ESTS, WEAKLY SIMILAR TO RETINAL SHORT-CHAIN DEHYDROGENASE/REDUCTASE RETSDR1 [H.SAPIENS] N79745                                    |
| 1044 | PEROU:96(6B6):384(20C12)    | INTEGRIN, BETA 2 (ANTIGEN CD18 (P95), LYMPHOCYTE FUNCTION-ASSOCIATED ANTIGEN 1; MACROPHAGE ANTIGEN 1 (MAC-1) BETA SUBUNIT) H17426 |
| 1045 | GF200:96(16D6):384(4H11)    | PROTEOLYCAN 1, SECRETORY GRANULE AA278759   |
| 1046 | GF200:96(24G11):384(6N21)   | HUMAN EVI2 PROTEIN GENE H93149  |
| 1047 | GF202:96(110C3):384(15E6)   | ECOTROPIC VIRAL INTEGRATION SITE 2B AA159620  |
| 1048 | GF200:96(7A6):384(2B12)     | LYSOSOMAL-ASSOCIATED MULTISPANNING MEMBRANE PROTEIN-5 AA410265  |
| 1049 | GF201:96(79E8):384(9I15)    | 795544 AA459654   |
| 1050 | GF200:96(9B2):384(3C3)      | NOTCH (DROSOPHILA) HOMOLOG 4 AA419524   |
| 1051 | GF201:96(90F8):384(11L15)   | LEUKOCYTE IMMUNOGLOBULIN-LIKE RECEPTOR 7 N63398   |
| 1052 | GF201:96(86C4):384(10F7)    | TUMOR NECROSIS FACTOR RECEPTOR SUPERFAMILY, MEMBER 1B AA150416  |
| 1053 | PEROU:96(6C8):384(20E16)    | HEMATOPOIETIC CELL-SPECIFIC LYN SUBSTRATE 1 N32012  |
| 1054 | GF200:96(11B2):384(3D4)     | HEMATOPOIETIC CELL-SPECIFIC LYN SUBSTRATE 1 AA424575  |
| 1055 | PEROU:96(6A12):384(20A24)   | FC FRAGMENT OF IGG, LOW AFFINITY IIB, RECEPTOR FOR (CD32) R78403  |
| 1056 | GF200:96(10A6):384(3A12)    | HOMO SAPIENS MRNA FOR GALECTIN-9 ISOFORM, COMPLETE CDS AA434102   |
| 1057 | GF200:96(3A1):384(1B2)      | PHOSPHOINOSITIDE-3-KINASE, CATALYTIC, GAMMA POLYPEPTIDE AA464765  |
| 1058 | GF200:96(17A9):384(5A17)    | PLECKSTRIN AA490267   |
| 1059 | GF201:96(91D11):384(12G21)  | ALLOGRAFT INFLAMMATORY FACTOR 1 W69954  |
| 1060 | GF200:96(18F7):384(5K14)    | SRC-LIKE-ADAPTER AA485141   |
| 1061 | GF201:96(100E11):384(14I22) | 33293 R43956  |
| 1062 | GF200:96(22A4):384(6A8)     | POTASSIUM VOLTAGE-GATED CHANNEL, SHAKER-RELATED SUBFAMILY, BETA MEMBER 2 H14383   |
| 1063 | GF200:96(25E2):384(7I3)     | CYTCHROME B-245, BETA POLYPEPTIDE (CHRONIC GRANULOMATOUS DISEASE) AA463492  |
| 1064 | GF201:96(89G2):384(11N4)    | H.SAPIENS MRNA FOR CORONIN AA047478   |
| 1065 | PEROU:96(6C1):384(20E2)     | CD53 ANTIGEN H70125   |
| 1066 | GF200:96(25H10):384(7O19)   | CD53 ANTIGEN AA132090   |

Table 1

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| 1067 | GF200:96(26C7):384(7E14)   | LYMPHOCYTE-SPECIFIC PROTEIN 1 T83159  |
| 1068 | GF201:96(89E7):384(11J14)  | HEMATOPOIETIC PROTEIN 1 AA668726  |
| 1069 | GF200:96(6F12):384(2K24)   | DEDICATOR OF CYTO-KINESIS 2 N70765  |
| 1070 | GF201:96(96H11):384(13O22) | CD38 ANTIGEN (P45) R00276   |
| 1071 | GF200:96(2F11):384(1K22)   | PROTEIN KINASE C, BETA 1 AA479102   |
| 1072 | GF201:96(100C6):384(14E12) | 51029 H19330  |
| 1073 | GF201:96(90A5):384(11B9)   | 51178 H17121  |
| 1074 | GF200:96(22B8):384(6C16)   | RHO GDP DISSOCIATION INHIBITOR (GDI) BETA AA487634  |
| 1075 | GF201:96(90B5):384(11D9)   | KIAA0195 GENE PRODUCT W79511  |
| 1076 | GF201:96(96H12):384(13O24) | CD37 ANTIGEN AA676453   |
| 1077 | GF201:96(96F7):384(13K14)  | CHEMOKINE (C-C MOTIF) RECEPTOR 1 AA036881   |
| 1078 | GF200:96(6H11):384(2O22)   | HUMAN MRNA FOR KIAA0128 GENE, PARTIAL CDS R76772  |
| 1079 | GF200:96(17G3):384(5M5)    | PROTEASE INHIBITOR 2 (ANTI-ELASTASE), MONOCYTE/NEUTROPHIL AA486275  |
| 1080 | GF200:96(14C2):384(4E4)    | CHEMOKINE (C-C MOTIF) RECEPTOR 2 H58254   |
| 1081 | GF200:96(25D7):384(7G13)   | 704020 AA279147   |
| 1082 | GF201:96(82C3):384(9F5)    | 504536 AA150043   |
| 1083 | GF200:96(4F7):384(11I3)    | INTERCELLULAR ADHESION MOLECULE 5, TELENCEPHALIN R87840   |
| 1084 | GF200:96(7B7):384(2D14)    | HUMAN MRNA FOR KIAA0006 GENE, COMPLETE CDS AA236617   |
| 1085 | GF201:96(102B7):384(14D13) | PROSTATE CANCER OVEREXPRESSED GENE 1 T64312   |
| 1086 | GF200:96(24D2):384(6H3)    | GLUTAREDOXIN (THIOLTRANSFERASE) AA291163  |
| 1087 | GF200:96(1G9):384(1M17)    | T-CELL RECEPTOR, ALPHA (V,D,J,C) AA427667   |
| 1088 | GF201:96(95E11):384(13I21) | GRANZYME K (SERINE PROTEASE, GRANZYME 3; TRYPTASE II) AA005382  |
| 1089 | GF200:96(26C9):384(7E18)   | CD79A ANTIGEN (IMMUNOGLOBULIN-ASSOCIATED ALPHA) T87012  |
| 1090 | GF200:96(14A9):384(4A18)   | CD8 ANTIGEN, ALPHA POLYPEPTIDE (P32) AA443649   |
| 1091 | GF201:96(88D5):384(11G10)  | INTERLEUKIN 10 RECEPTOR, ALPHA AA437226   |
| 1092 | GF200:96(4B3):384(1D5)     | INTEGRIN, ALPHA L, CD11A R48796   |
| 1093 | GF200:96(1G8):384(1M15)    | 742143 AA406027   |
| 1094 | GF201:96(98G4):384(13N7)   | T-CELL RECEPTOR, BETA CLUSTER N91921  |
| 1095 | GF201:96(86E4):384(10J7)   | 80186 T64192  |
| 1096 | GF201:96(86E3):384(10J5)   | T-CELL RECEPTOR, DELTA (V,D,J,C) AA670107   |
| 1097 | GF201:96(98H4):384(13P7)   | ESTS, WEAKLY SIMILAR TO S-ACYL FATTY ACID SUNTHETASE THIO ESTER HYDROLASE, MEDIUM CHAIN [R.NORVEGICUS] AA470066 |
| 1098 | GF200:96(25B11):384(7C22)  | LYMPHOCYTE-SPECIFIC PROTEIN TYROSINE KINASE AA420981  |
| 1099 | GF201:96(86E6):384(10J11)  | CD3D ANTIGEN, DELTA POLYPEPTIDE (TIT3 COMPLEX) AA055946   |
| 1100 | GF200:96(14B2):384(4C4)    | CD3G ANTIGEN, GAMMA POLYPEPTIDE (TIT3 COMPLEX) T66800   |
| 1101 | GF200:96(22C5):384(6E10)   | TRANSCRIPTION FACTOR DP-2 (E2F DIMERIZATION PARTNER 2) AA465444   |
| 1102 | GF200:96(14D2):384(4G4)    | TUMOR NECROSIS FACTOR, ALPHA-INDUCED PROTEIN 2 AA457114   |
| 1103 | GF200:96(17C6):384(5E11)   | NATURAL KILLER CELL TRANSCRIPT 4 AA458965   |
| 1104 | GF200:96(14B3):384(4C6)    | CD39 ANTIGEN H13577   |

Table 1

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| 1105 | GF200:96(14E2):384(414)     | APOLIPOPROTEIN C-II AA456474   |
| 1106 | GF200:96(1D6):384(1G11)     | TRANSKETOLASE (WERNICKE-KORSAKOFF SYNDROME) AA070357   |
| 1107 | GF201:96(96B12):384(13C24)  | SOLUTE CARRIER FAMILY 26 (SULFATE TRANSPORTER), MEMBER 2 N73101  |
| 1108 | GF201:96(68A5):384(24A10)   | ESTS, WEAKLY SIMILAR TO MBNL PROTEIN [H.SAPIENS] AA460149  |
| 1109 | GF201:96(80B4):384(9C8)     | ATROPHIN-1 INTERACTING PROTEIN 4 AA448286  |
| 1110 | GF201:96(95A2):384(13A3)    | GENERAL TRANSCRIPTION FACTOR ITH, POLYPEPTIDE 3 (34KD SUBUNIT) AA460838  |
| 1111 | GF200:96(29E10):384(8119)   | ESTS, MODERATELY SIMILAR TO THYMIDINE DIPHOSPHOGLUCOSE 4,6-DEHYDRATASE [C.ELEGANS] H63455  |
| 1112 | GF201:96(67D12):384(24G23)  | 282047 N48252  |
| 1113 | GF202:96(114C5):384(16E10)  | S-ADENOSYLMETHIONINE DECARBOXYLASE 1 AA425692  |
| 1114 | GF201:96(98B6):384(13D11)   | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 3882205) [H.SAPIENS] AA425650  |
| 1115 | GF202:96(112B7):384(15D13)  | 593239 AA165348  |
| 1116 | GF202:96(115A6):384(16B12)  | HOMO SAPIENS MRNA; CDNA DKFZP564M2423 (FROM CLONE DKFZP564M2423) AA487070  |
| 1117 | PEROU:96(7G6):384(20N12)    | TUMOR REJECTION ANTIGEN (GP96) 1 AA075290  |
| 1118 | GF201:96(85F6):384(10L12)   | 257248 N26906  |
| 1119 | GF202:96(110D11):384(15G22) | 133454 R27457  |
| 1120 | GF201:96(66D11):384(23H21)  | ESTS, HIGHLY SIMILAR TO (DEFINE NOT AVAILABLE 4191594) [H.SAPIENS] AA464237  |
| 1121 | GF200:96(10E6):384(31I2)    | MAD (MOTHERS AGAINST DECAPENTAPLEGIC, DROSOPHILA) HOMOLOG 5 AA418999   |
| 1122 | GF201:96(69C12):384(24F24)  | 782209 AA431986  |
| 1123 | GF201:96(98B9):384(13D17)   | ESTS, HIGHLY SIMILAR TO (DEFINE NOT AVAILABLE 3954942) [H.SAPIENS] AA425297  |
| 1124 | GF200:96(12D5):384(3H9)     | GLUCOSAMINE (N-ACETYL)-6-SULFATASE (SANFILIPPO DISEASE IIID) AA035347  |
| 1125 | GF202:96(116H7):384(16P13)  | 234977 H73640  |
| 1126 | GF202:96(112F3):384(15L5)   | ESTS, HIGHLY SIMILAR TO (DEFINE NOT AVAILABLE 4530437) [H.SAPIENS] AA457462  |
| 1127 | GF201:96(57D7):384(21H14)   | DCMP DEAMINASE W51951  |
| 1128 | GF200:96(13F11):384(4K21)   | CLATHRIN-ASSOCIATED/ASSEMBLY/ADAPTOR PROTEIN, LARGE, BETA 1 N72918   |
| 1129 | GF201:96(102D4):384(14H7)   | 84229 T72825   |
| 1130 | GF201:96(90F5):384(11L9)    | IRON-RESPONSIVE ELEMENT BINDING PROTEIN 2 AA133187   |
| 1131 | GF202:96(115C2):384(16F4)   | CHONDROITIN SULFATE PROTEOGLYCAN 6 (BAMACAN) W40150  |
| 1132 | GF201:96(97A12):384(13B24)  | METHYLENETETRAHYDROFOLATE DEHYDROGENASE (NADP+ DEPENDENT), METHENYLTETRAHYDROFOLATE CYCLOHYDROLASE, FORMYLTETRAHYDROFOLATE SYNTHETASE AA633577 |
| 1133 | GF201:96(58D11):384(21H21)  | CITRATE SYNTHASE N67639  |
| 1134 | GF201:96(99D6):384(14G11)   | CITRATE SYNTHASE AA416759  |
| 1135 | GF200:96(21F5):384(6K9)     | HUMAN TBI GENE MRNA, 3' END H11501   |
| 1136 | GF202:96(116G4):384(16N7)   | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 4240269) [H.SAPIENS] AA169411  |
| 1137 | GF200:96(7F4):384(2L8)      | FRAGILE X MENTAL RETARDATION, AUTOSOMAL HOMOLOG 1 N79708   |
| 1138 | GF201:96(58B5):384(21D9)    | SNARE PROTEIN AA457731   |
| 1139 | GF201:96(57F2):384(21L4)    | TRANSCRIPTION FACTOR 12 (HTF4, HELIX-LOOP-HELIX TRANSCRIPTION FACTORS 4) H98856  |
| 1140 | GF201:96(56E6):384(21I12)   | RAS-GTPASE ACTIVATING PROTEIN SH3 DOMAIN-BINDING PROTEIN 2 AA151214  |



Table 1

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| 1141 | GF202:96(114E1):384(16I2)   | HOMO SAPIENS HUNTINGTIN-INTERACTING PROTEIN HYPA/FBP11 (HYPA) MRNA, PARTIAL CDS<br>AA412712        |
| 1142 | GF200:96(31D1):384(8H2)     | CHAPERONIN CONTAINING TCP1, SUBUNIT 4 (DELTA) T98684   |
| 1143 | GF201:96(98B5):384(13D9)    | MYOSIN PHOSPHATASE, TARGET SUBUNIT 1 AA487028  |
| 1144 | GF200:96(3B1):384(1D2)      | HUMAN CLONE 23721 MRNA SEQUENCE R45056   |
| 1145 | GF201:96(79F12):384(9K23)   | TRANSCRIPTION FACTOR 6-LIKE 1 (MITOCHONDRIAL TRANSCRIPTION FACTOR 1-LIKE) AA150777                 |
| 1146 | GF201:96(98E4):384(13J7)    | ESTS, HIGHLY SIMILAR TO (DEFINE NOT AVAILABLE 4091980) [H.SAPIENS] H11938                          |
| 1147 | GF200:96(13G12):384(4M23)   | CASEIN KINASE 2, ALPHA 1 POLYPEPTIDE T98414  |
| 1148 | GF201:96(80H3):384(9O6)     | ESTS, MODERATELY SIMILAR TO !!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS] W04674              |
| 1149 | GF200:96(8B1):384(2D1)      | HOMO SAPIENS TRACHEA CELLULAR APOPTOSIS SUSCEPTIBILITY PROTEIN (CSE1) MRNA, COMPLETE<br>CDS N69204 |
| 1150 | GF202:96(109F8):384(15K15)  | HUMAN GLUCOSE TRANSPORTER PSEUDOGENE H03954  |
| 1151 | GF201:96(55F6):384(21K11)   | PROTEIN KINASE, AMP-ACTIVATED, BETA 2 NON-CATALYTIC SUBUNIT N78582                                 |
| 1152 | GF201:96(57D11):384(21H22)  | HOMO SAPIENS 14-3-3 PROTEIN MRNA, COMPLETE CDS AA609598  |
| 1153 | GF200:96(10A1):384(3A2)     | I24781 R01118  |
| 1154 | GF201:96(87F7):384(11K13)   | NUCLEAR TRANSCRIPTION FACTOR Y, ALPHA AA412691   |
| 1155 | GF200:96(14F8):384(4K16)    | 195903 R92227  |
| 1156 | GF201:96(80D8):384(9G16)    | DEAD/H (ASP-GLU-ALA-ASP/HIS) BOX POLYPEPTIDE, Y CHROMOSOME AA447588                                |
| 1157 | GF201:96(85F3):384(10L6)    | EUKARYOTIC TRANSLATION INITIATION FACTOR 1A, Y CHROMOSOME N92611                                   |
| 1158 | GF200:96(10C11):384(3E22)   | EUKARYOTIC TRANSLATION INITIATION FACTOR 1A, Y CHROMOSOME AA047039                                 |
| 1159 | GF202:96(115D7):384(16H14)  | 842848 AA486281  |
| 1160 | GF200:96(7H3):384(2P6)      | HUMAN CLONE 23933 MRNA SEQUENCE H56918   |
| 1161 | GF201:96(98H8):384(13P15)   | ATP CITRATE LYASE H08548   |
| 1162 | GF201:96(85F1):384(10L2)    | 345743 W72666  |
| 1163 | PEROU:96(6E10):384(20I20)   | MONOCYTE DIFFERENTIATION ANTIGEN CD14 PRECURSOR W87270   |
| 1164 | GF200:96(5A11):384(2A21)    | COMPLEMENT COMPONENT 3A RECEPTOR 1 AA464711  |
| 1165 | GF201:96(88A10):384(11A20)  | CD14 ANTIGEN AA701476  |
| 1166 | GF200:96(5F5):384(2K9)      | INOSITOL 1,4,5-TRIPHOSPHATE RECEPTOR, TYPE 2 AA479093  |
| 1167 | GF201:96(58D2):384(21H3)    | MURINE LEUKEMIA VIRAL (BML-1) ONCOGENE HOMOLOG T87515  |
| 1168 | GF200:96(17D5):384(5G9)     | MURINE LEUKEMIA VIRAL (BML-1) ONCOGENE HOMOLOG AA478036  |
| 1169 | GF201:96(102F3):384(14L5)   | 46448 H10673   |
| 1170 | GF201:96(84G8):384(10M16)   | ENDOTHELIAL DIFFERENTIATION-RELATED FACTOR 1 N69393  |
| 1171 | GF201:96(81D1):384(9H2)     | ESTS, MODERATELY SIMILAR TO !!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS] H54263              |
| 1172 | PEROU:96(4C5):384(19F9)     | GDNF FAMILY RECEPTOR ALPHA 1 AA512935  |
| 1173 | GF200:96(5G7):384(2M13)     | PHOSPHOLIPASE C, EPSILON AA411387  |
| 1174 | GF200:96(5G11):384(2M21)    | NEL (CHICKEN)-LIKE 2 H45376  |
| 1175 | GF201:96(94E12):384(12J23)  | HUMAN HEART MRNA FOR HEAT SHOCK PROTEIN 90, PARTIAL CDS H88540                                     |
| 1176 | GF202:96(109H11):384(15O21) | CALMEGIN AA78675   |
| 1177 | GF201:96(101A7):384(14B14)  | 74223 T48412   |

Table 1

|      |                            |   |
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| 1178 | GF201:96(86F4):384(10L7)   | ESTS, HIGHLY SIMILAR TO PUTATIVE [H.SAPIENS] AA022561   |
| 1179 | GF201:96(101B7):384(14D14) | 70203 T50083  |
| 1180 | GF200:96(25F8):384(7K15)   | CAPPING PROTEIN (ACTIN FILAMENT), GELSOLIN-LIKE AA486942  |
| 1181 | GF200:96(24E8):384(6J15)   | FORMYL PEPTIDE RECEPTOR 1 AA425249  |
| 1182 | GF200:96(25G9):384(7M17)   | COAGULATION FACTOR XIII, A1 POLYPEPTIDE AA448599  |
| 1183 | GF200:96(26F10):384(7K20)  | TUMOR NECROSIS FACTOR (LIGAND) SUPERFAMILY, MEMBER 10 H54629                                      |
| 1184 | GF201:96(62E7):384(22J13)  | PIGMENT EPITHELIUM-DERIVED FACTOR AA463946  |
| 1185 | GF201:96(60B10):384(22C20) | 811095 AA485674   |
| 1186 | PEROU:96(6C4):384(20E8)    | B-FACTOR, PROPERDIN H80257  |
| 1187 | GF201:96(97C2):384(13F4)   | B-FACTOR, PROPERDIN AA401441  |
| 1188 | GF201:96(56A5):384(21A10)  | RETINOIC ACID RECEPTOR RESPONDER (TAZAROTENE INDUCED) 3 W47350                                    |
| 1189 | GF201:96(90E5):384(11J9)   | BONE MARROW STROMAL CELL ANTIGEN 2 AA485371   |
| 1190 | GF201:96(88C4):384(11E8)   | FC FRAGMENT OF IGG, LOW AFFINITY IIB, RECEPTOR FOR (CD32) R68106                                  |
| 1191 | GF201:96(88B4):384(11C8)   | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS I, A AA644657   |
| 1192 | GF202:96(116F1):384(16L1)  | 72745 T50661  |
| 1193 | GF201:96(88A5):384(11A10)  | MAJOR HISTOCOMPATIBILITY COMPLEX, CLASS I, C AA464246   |
| 1194 | GF201:96(88A6):384(11A12)  | MACROPHAGE STIMULATING 1 (HEPATOCYTE GROWTH FACTOR-LIKE) T51539                                   |
| 1195 | PEROU:96(7F2):384(20L4)    | BETA-2-MICROGLOBULIN A1250654   |
| 1196 | GF201:96(98F10):384(13L19) | INTERFERON-INDUCED PROTEIN 41, 30KD R54613  |
| 1197 | GF201:96(60D6):384(23H11)  | 504372 AA142842   |
| 1198 | GF202:96(113E6):384(16I11) | ESTS, WEAKLY SIMILAR TO NEURONAL THREAD PROTEIN AD7C-NTP [H.SAPIENS] AA099706                     |
| 1199 | GF200:96(32H9):384(8P17)   | ESTS, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY SB WARNING ENTRY !!!! [H.SAPIENS] T64956               |
| 1200 | GF201:96(98A2):384(13B3)   | INTERFERON-INDUCED PROTEIN 17 AA058323  |
| 1201 | GF201:96(88E11):384(11I22) | INTERFERON-INDUCED PROTEIN 17 AA419251  |
| 1202 | GF201:96(88F10):384(11K20) | 361899 AA001376   |
| 1203 | GF201:96(88F3):384(11K6)   | INTERFERON, ALPHA-INDUCIBLE PROTEIN 27 AA157813   |
| 1204 | GF200:96(10B11):384(3C22)  | HYPOTHETICAL PROTEIN, EXPRESSED IN OSTEOPLAST AA410567  |
| 1205 | GF200:96(4A8):384(1B15)    | HUMAN MRNA FOR 56-KDA PROTEIN INDUCED BY INTERFERON AA489743                                      |
| 1206 | GF201:96(88E12):384(11I24) | 289496 N63988   |
| 1207 | GF200:96(1F9):384(1K17)    | INTERFERON-STIMULATED TRANSCRIPTION FACTOR 3, GAMMA (48KD) AA291577                               |
| 1208 | GF200:96(17C9):384(5E17)   | MYXOVIRUS (INFLUENZA) RESISTANCE 1, HOMOLOG OF MURINE (INTERFERON-INDUCIBLE PROTEIN P78) AA456886 |
| 1209 | GF201:96(88F1):384(11K2)   | INTERFERON-STIMULATED PROTEIN, 15 KDA AA406020  |
| 1210 | PEROU:96(9F6):384(18L12)   | INTERFERON-INDUCED 17 KD PROTEIN AA120862   |
| 1211 | GF200:96(17H9):384(5017)   | INTERFERON, ALPHA-INDUCIBLE PROTEIN (CLONE IFI-6-16) AA448478                                     |
| 1212 | GF200:96(26C8):384(7E16)   | INTERFERON, ALPHA-INDUCIBLE PROTEIN (CLONE IFI-6-16) AA432030                                     |
| 1213 | PEROU:96(9G1):384(18N2)    | INTERFERON ALPHA-INDUCIBLE PROTEIN (CLONE IFI-6-16) AA075725                                      |
| 1214 | PEROU:96(9G3):384(18N6)    | SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 1-ALPHA/BETA AA079495                            |
| 1215 | PEROU:96(7G12):384(20N24)  | SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 1-ALPHA/BETA AA076085                            |

Table 1

|      |                             |   |
|------|-----------------------------|---|
| 1216 | PEROU:96(9G2):384(18N4)     | SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 1-ALPHA/BETA AA076085  |
| 1217 | GF200:96(15H8):384(4P16)    | ESTS, HIGHLY SIMILAR TO SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 1-ALPHA/BETA [H.SAPIENS] AA486367      |
| 1218 | GF200:96(15C9):384(4F18)    | TRANSPORTER 1, ABC (ATP BINDING CASSETTE) AA487637  |
| 1219 | GF200:96(23B8):384(6D16)    | MHC CLASS I REGION ORF T58146   |
| 1220 | GF201:96(84C7):384(10E14)   | 207838 H60298   |
| 1221 | GF200:96(17H10):384(5O19)   | INTERFERON REGULATORY FACTOR 1 AA478043   |
| 1222 | GF202:96(109B12):384(15C23) | PROTEASOME (PROSOME, MACROPAIN) SUBUNIT, BETA TYPE, 8 (LARGE MULTIFUNCTIONAL PROTEASE 7) AA181300               |
| 1223 | GF200:96(21D8):384(6G15)    | BUTYROPHILIN, SUBFAMILY 3, MEMBER A3 AA478585   |
| 1224 | GF201:96(92D11):384(12G22)  | UBIQUITIN-CONJUGATING ENZYME E2L 6 AA292074   |
| 1225 | GF200:96(32A10):384(8B19)   | 144916 R78509   |
| 1226 | GF200:96(24B9):384(6D17)    | MONOKINE INDUCED BY GAMMA INTERFERON AA131406   |
| 1227 | GF200:96(11D9):384(3H18)    | DIUBIQUITIN N49629  |
| 1228 | GF201:96(63H7):384(23O13)   | 288807 N62522   |
| 1229 | GF200:96(9B12):384(3C23)    | G PROTEIN-COUPLED RECEPTOR R92239   |
| 1230 | GF202:96(109G2):384(15M3)   | LECTIN, GALACTOSIDE-BINDING, SOLUBLE, 3 BINDING PROTEIN (GALECTIN 6 BINDING PROTEIN) AA485353                   |
| 1231 | PEROU:96(7B2):384(20D4)     | GLUTATHIONE S-TRANSFERASE M1 AA232417   |
| 1232 | PEROU:96(7B1):384(20D2)     | GLUTAMATE RECEPTOR, IONOTROPIC, N-METHYL D-ASPARTATE 1 AA351537   |
| 1233 | GF201:96(96E5):384(13I10)   | COLONY STIMULATING FACTOR 1 RECEPTOR, FORMERLY MCDONOUGH FELINE SARCOMA VIRAL (V-FMS) ONCOGENE HOMOLOG AA284954 |
| 1234 | GF201:96(68B8):384(24C16)   | 795307 AA454159   |
| 1235 | GF201:96(87A9):384(11A17)   | RECOVERIN AA074224  |
| 1236 | GF201:96(97C9):384(13F18)   | ARYLSULFATASE A H45449  |
| 1237 | GF200:96(17G5):384(5M9)     | SERINE DEHYDRATASE T71363   |
| 1238 | GF202:96(116F8):384(16L15)  | 265343 N20862   |
| 1239 | GF201:96(101D5):384(14H10)  | HOMO SAPIENS CLONE 643 UNKNOWN MRNA, COMPLETE SEQUENCE T53404   |
| 1240 | GF201:96(83H11):384(10O21)  | 811020 AA485369   |
| 1241 | GF200:96(25D10):384(7G19)   | COLLAGEN, TYPE II, ALPHA 1 (PRIMARY OSTEOARTHRITIS, SPONDYLOEPHYSEAL DYSPLASIA, CONGENITAL) N66737              |
| 1242 | GF201:96(83A8):384(10A15)   | 490718 AA115761   |
| 1243 | GF200:96(4F1):384(1L1)      | GATA-BINDING PROTEIN 6 H77652   |
| 1244 | GF201:96(98B8):384(13D15)   | ESTS, WEAKLY SIMILAR TO NUCLEAR PROTEIN SA-1 [H.SAPIENS] H17115   |
| 1245 | GF200:96(12F11):384(3L21)   | FOLATE RECEPTOR 1 (ADULT) R24635  |
| 1246 | GF200:96(26E4):384(7I8)     | HUMAN MRNA FOR KIAA0300 GENE, PARTIAL CDS AA405458  |
| 1247 | GF200:96(9B10):384(3C19)    | HUMAN GABA-A RECEPTOR EPSILON SUBUNIT (GABRE) RNA, ALTERNATIVE TRANSCRIPT H63934                                |
| 1248 | GF201:96(92B7):384(12C14)   | SMALL INDUCIBLE CYTOKINE SUBFAMILY D (CYS-X3-CYS), MEMBER 1 (FRACTALKINE, NEUROTACTIN) R66139                   |

Table 1

|      |                             |   |
|------|-----------------------------|---|
| 1249 | GF201:96(92C8):384(12E16)   | HUMAN DNA SEQUENCE FROM PAC 196E23 ON CHROMOSOME XQ26.1-27.2. CONTAINS THE TAT-SF1 (HIV-1 TRANSCRIPTIONAL ELONGATION FACTOR TAT COFACTOR TAT-SF1) GENE, THE BRS3 (BOMBESIN RECEPTOR SUBTYPE-3 (UTERINE BOMBESIN RECEPTOR, BRS-3) GEN AA700322 |
| 1250 | GF201:96(92B2):384(12C4)    | HUMAN DNA-BINDING PROTEIN ABP/ZF MRNA, COMPLETE CDS W88571  |
| 1251 | GF201:96(95B1):384(13C1)    | PHOSPHATIDYLINOSITOL-4-PHOSPHATE 5-KINASE, TYPE I, BETA R39069  |
| 1252 | GF201:96(94H9):384(12P17)   | 51406 H18950  |
| 1253 | GF201:96(55E8):384(21I15)   | 503051 AA149250   |
| 1254 | GF201:96(58C8):384(21F15)   | FATTY ACID BINDING PROTEIN 7, BRAIN N46862  |
| 1255 | GF201:96(92H10):384(12O20)  | FATTY ACID BINDING PROTEIN 7, BRAIN W72051  |
| 1256 | GF201:96(99D9):384(14G17)   | MACROPHAGE RECEPTOR WITH COLLAGENOUS STRUCTURE AA485867   |
| 1257 | GF200:96(22G5):384(6M10)    | HOMO SAPIENS MRNA FOR CALPAIN-LIKE PROTEASE CANPX AA457330  |
| 1258 | GF201:96(79C4):384(9E7)     | 298662 N74313   |
| 1259 | GF202:96(112C12):384(15F23) | FORKHEAD (DROSOPHILA)-LIKE 7 N22552   |
| 1260 | GF201:96(82G11):384(9N21)   | ESTS, WEAKLY SIMILAR TO IIII ALU SUBFAMILY J WARNING ENTRY IIIII [H.SAPIENS] AA459296   |
| 1261 | GF200:96(19D3):384(5H6)     | MEGAKARYOCYTE POTENTIATING FACTOR AA48406   |
| 1262 | GF200:96(18G9):384(5M18)    | PREFERENTIALLY EXPRESSED ANTIGEN OF MELANOMA AA598817   |
| 1263 | GF200:96(7F7):384(2L14)     | EYES ABSENT (DROSOPHILA) HOMOLOG 2 AA402207   |
| 1264 | GF201:96(55B7):384(21C13)   | SYNAPTORYRIN 1 AA007632   |
| 1265 | GF200:96(2H9):384(1O18)     | PHOSPHOLIPASE C, BETA 4 H22563  |
| 1266 | GF200:96(4F3):384(1L5)      | TRANSCRIPTION FACTOR AP-2 GAMMA (ACTIVATING ENHANCER-BINDING PROTEIN 2 GAMMA) AA399334  |
| 1267 | GF201:96(88C6):384(11E12)   | KERATIN 4 AA629189  |
| 1268 | GF201:96(66E1):384(23J1)    | BONE MORPHOGENETIC PROTEIN 7 (OSTEOGENIC PROTEIN 1) AA029597  |
| 1269 | GF201:96(97B5):384(13D10)   | BONE MORPHOGENETIC PROTEIN 7 (OSTEOGENIC PROTEIN 1) W73473  |
| 1270 | GF201:96(66H1):384(23P1)    | KIAA0626 GENE PRODUCT N62737  |
| 1271 | GF200:96(26E2):384(7I4)     | HUMAN MRNA FOR KIAA0338 GENE, PARTIAL CDS R71689  |
| 1272 | GF201:96(96F8):384(13K16)   | CERULOPLASMIN (FERROXIDASE) H86554  |
| 1273 | GF200:96(11A1):384(3B2)     | HEPATIC LEUKEMIA FACTOR W00959  |
| 1274 | GF201:96(98A9):384(13B17)   | ESTS, WEAKLY SIMILAR TO VERY-LONG-CHAIN ACYL-COA SYNTHETASE [M.MUSCULUS] AA412064   |
| 1275 | GF200:96(15F5):384(4L10)    | SYNDECAN 2 (HEPARAN SULFATE PROTEOGLYCAN 1, CELL SURFACE-ASSOCIATED, FIBROGLYCAN) H64346  |
| 1276 | GF201:96(79G7):384(9M13)    | 307050 N89673   |
| 1277 | GF201:96(55F8):384(21K15)   | CELLULAR RETINOIC ACID-BINDING PROTEIN 1 AA454702   |
| 1278 | GF201:96(96F11):384(13K22)  | CELLULAR RETINOIC ACID-BINDING PROTEIN 1 AA421218   |
| 1279 | GF200:96(16G12):384(4N23)   | PHOSPHODIESTERASE 4B, CAMP-SPECIFIC (DUNCE (DROSOPHILA)-HOMOLOG PHOSPHODIESTERASE E4) AA453293  |
| 1280 | GF201:96(89G6):384(11N12)   | S100 CALCIUM-BINDING PROTEIN A1 AA425934  |
| 1281 | GF201:96(65C5):384(23F10)   | SIGNAL TRANSDUCTION PROTEIN (SH3 CONTAINING) AA460282   |
| 1282 | GF201:96(65B5):384(23D10)   | 134690 R28267   |

Table 1

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| 1283 | PEROU:96(9E12):384(18I24)   | ERYTHROCYTE MEMBRANE PROTEIN BAND 7.2 (STOMATIN) A1224884  |
| 1284 | GF201:96(67C11):384(24E21)  | 782669 AA447583  |
| 1285 | GF201:96(83C9):384(10E17)   | 416107 W85998  |
| 1286 | GF201:96(95E4):384(13I7)    | DEATH-ASSOCIATED PROTEIN KINASE 1 AA025275   |
| 1287 | GF202:96(115A9):384(16B18)  | 773375 AA425723  |
| 1288 | GF200:96(19C2):384(5F4)     | ESTS, HIGHLY SIMILAR TO POSSIBLE GLOBAL TRANSCRIPTION ACTIVATOR SNF2L3 [H.SAPIENS]<br>AA481026   |
| 1289 | GF201:96(84E10):384(10I20)  | 416676 W86504  |
| 1290 | PEROU:96(6F10):384(20K20)   | 485760 AA039943  |
| 1291 | PEROU:96(6D3):384(20G6)     | 290361 N64505  |
| 1292 | GF201:96(93B4):384(12D8)    | GOLGI AUTOANTIGEN, GOLGIN SUBFAMILY A, 3 AA663910  |
| 1293 | GF201:96(56F12):384(21K24)  | ESTS, MODERATELY SIMILAR TO LASP-1 PROTEIN [H.SAPIENS] AA458882  |
| 1294 | GF201:96(61A12):384(22B24)  | 795367 AA453271  |
| 1295 | GF201:96(67D1):384(24G1)    | 268157 N30152  |
| 1296 | GF200:96(25G4):384(7M7)     | CYSTATIN B (STEFIN B) H22919   |
| 1297 | GF201:96(101H4):384(14P8)   | SUPEROXIDE DISMUTASE 2, MITOCHONDRIAL T61649   |
| 1298 | GF201:96(86E10):384(10J19)  | SUPEROXIDE DISMUTASE 2, MITOCHONDRIAL AA488084   |
| 1299 | GF201:96(59E10):384(22I19)  | 309803 N94612  |
| 1300 | GF200:96(1488):384(4C16)    | CHITINASE 3-LIKE 1 (CARTILAGE GLYCOPROTEIN-39) AA434115  |
| 1301 | GF201:96(93B6):384(12D12)   | EPH86 AA609284   |
| 1302 | GF201:96(96F6):384(13K12)   | CHITINASE 3-LIKE 2 AA668821  |
| 1303 | PEROU:96(7C4):384(20F8)     | 263815 N28486  |
| 1304 | GF200:96(16D3):384(4H5)     | H.SAPIENS MRNA FOR AN ACUTE MYELOID LEUKAEMIA PROTEIN (39I7BP) AA425238  |
| 1305 | GF200:96(14C6):384(4E12)    | BILIARY GLYCOPROTEIN AA411757  |
| 1306 | GF200:96(9A7):384(3A13)     | APOPTOSIS INHIBITOR 2 H48706   |
| 1307 | GF200:96(24F4):384(6L7)     | FIBROBLAST GROWTH FACTOR RECEPTOR 2 (BACTERIA-EXPRESSED KINASE, KERATINOCYTE GROWTH FACTOR RECEPTOR, CRANIOFACIAL DYOSTOSIS 1, CROUZON SYNDROME, PFEIFFER SYNDROME, JACKSON-WEISS SYNDROME) AA443093 |
| 1308 | GF200:96(12G5):384(3N9)     | FIBROBLAST GROWTH FACTOR RECEPTOR 2 (BACTERIA-EXPRESSED KINASE, KERATINOCYTE GROWTH FACTOR RECEPTOR, CRANIOFACIAL DYOSTOSIS 1, CROUZON SYNDROME, PFEIFFER SYNDROME, JACKSON-WEISS SYNDROME) AA456160 |
| 1309 | GF200:96(10B2):384(3C4)     | IMMUNOGLOBULIN SUPERFAMILY CONTAINING LEUCINE-RICH REPEAT H62387   |
| 1310 | GF202:96(116B10):384(16D19) | ESTS, WEAKLY SIMILAR TO KIAA0631 PROTEIN [H.SAPIENS] AA497001  |
| 1311 | PEROU:96(4D3):384(19H5)     | CYTCHROME P450, SUBFAMILY I (DIOXIN-INDUCIBLE), POLYPEPTIDE 1 (GLAUCOMA 3, PRIMARY INFANTILE) AA029776   |
| 1312 | GF200:96(25C2):384(7E3)     | CYTCHROME P450, SUBFAMILY I (DIOXIN-INDUCIBLE), POLYPEPTIDE 1 (GLAUCOMA 3, PRIMARY INFANTILE) AA448157   |
| 1313 | GF201:96(83A9):384(10A17)   | 306420 N92699  |
| 1314 | GF200:96(4E5):384(1J9)      | POTASSIUM CHANNEL, SUBFAMILY K, MEMBER 1 (TWIK-1) N62620   |

Table 1

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| 1315 | GF201:96(83H3):384(1005)    | KYNURENINE 3-MONOOXYGENASE (KYNURENINE 3-HYDROXYLASE) AA152183  |
| 1316 | GF201:96(58F9):384(21L17)   | UNTITLED R16098   |
| 1317 | GF201:96(86H1):384(10P1)    | S100 CALCIUM-BINDING PROTEIN A8 (CALGRANULIN A) AA086471  |
| 1318 | GF201:96(86G1):384(10N1)    | ESTS, HIGHLY SIMILAR TO STAT4 [M.MUSCULUS] R91570   |
| 1319 | GF201:96(87F3):384(11K5)    | OROSOMUCOID 1 AA700876  |
| 1320 | GF201:96(95C5):384(13E9)    | ACID SPHINGOMYELINASE-LIKE PHOSPHODIESTERASE AA676836   |
| 1321 | GF201:96(91E7):384(12I13)   | TOLL-LIKE RECEPTOR 2 T57791   |
| 1322 | GF200:96(5B4):384(2C7)      | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, K R79082   |
| 1323 | GF201:96(90B8):384(11D15)   | KIAA0173 GENE PRODUCT AA682815  |
| 1324 | GF201:96(87G1):384(11M1)    | TRANSMEMBRANE GLYCOPROTEIN AA425450   |
| 1325 | GF201:96(101B9):384(14D18)  | 77193 T50121  |
| 1326 | GF200:96(30G3):384(8M6)     | 122982 R00332   |
| 1327 | GF201:96(56C8):384(21E16)   | 268960 N24645   |
| 1328 | GF200:96(12E7):384(3113)    | HUMAN GLUCOSE TRANSPORTER-LIKE PROTEIN-III (GLUT3), COMPLETE CDS AA406551   |
| 1329 | GF200:96(24G12):384(6N23)   | ETS VARIANT GENE 5 (ETS-RELATED MOLECULE) AA463830  |
| 1330 | GF200:96(24G1):384(6N1)     | HUMAN CLONE 23933 MRNA SEQUENCE H56918  |
| 1331 | GF201:96(97E2):384(13J4)    | ALDEHYDE DEHYDROGENASE 7 N93686   |
| 1332 | GF201:96(96D1):384(13G2)    | CYTOCHROME P450, SUBFAMILY XXVITA (STEROID 27-HYDROXYLASE, CEREBROTENDININOS XANTHOMATOSIS), POLYPEPTIDE 1 N66957 |
| 1333 | GF201:96(66C11):384(23F21)  | 343400 W67199   |
| 1334 | GF200:96(4C9):384(1F17)     | GUANYLATE BINDING PROTEIN 2, INTERFERON-INDUCIBLE W77927  |
| 1335 | PEROU:96(886):384(20D11)    | TUMOR PROTEIN P53 (LI-FRAUMENI SYNDROME) H62385   |
| 1336 | PEROU:96(10E10):384(18J19)  | P53-ALU U94788  |
| 1337 | GF201:96(80F3):384(9K6)     | 321488 W32509   |
| 1338 | GF200:96(5D6):384(2G11)     | LIVER X RECEPTOR, ALPHA H61935  |
| 1339 | GF202:96(116E9):384(16J17)  | ESTS, MODERATELY SIMILAR TO (DEFLINE NOT AVAILABLE 4105275) [H.SAPIENS] T60160                                    |
| 1340 | GF201:96(102H8):384(14P15)  | 46180 H09105  |
| 1341 | GF201:96(88B5):384(11C10)   | MALIC ENZYME 1, SOLUBLE AA669689  |
| 1342 | GF200:96(24D1):384(6H1)     | GLUTATHIONE S-TRANSFERASE A2 T73468   |
| 1343 | GF200:96(28B5):384(7D9)     | EST, WEAKLY SIMILAR TO !!!! ALU SUBFAMILY J WARNING ENTRY !!!! [H.SAPIENS] W47077                                 |
| 1344 | GF202:96(112B10):384(15D19) | 510736 AA099748   |
| 1345 | GF200:96(14D10):384(4G20)   | ARACHIDONATE 5-LIPOXYGENASE H51574  |
| 1346 | GF200:96(32G3):384(8N5)     | ESTS, HIGHLY SIMILAR TO AQUAPORIN 3 [H.SAPIENS] R91904  |
| 1347 | GF201:96(99B8):384(14C15)   | PARAOXONASE 3 T57069  |
| 1348 | GF200:96(26G9):384(7M18)    | PARAOXONASE 3 R95740  |
| 1349 | GF202:96(109A3):384(15A5)   | UDP GLYCOSYLTRANSFERASE 2 FAMILY, POLYPEPTIDE B4 N53031   |
| 1350 | GF201:96(95G5):384(13M9)    | GAP JUNCTION PROTEIN, BETA 1, 32KD (CONNEXIN 32, CHARCOT-MARIE-TOOTH NEUROPATHY, X-LINKED) N62394                 |
| 1351 | GF200:96(30D6):384(1H12)    | DIAPHORASE (NADH/NADPH) (CYTOCHROME B-5 REDUCTASE) AA455538   |

Table 1

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| 1352 | GF200:96(13D4):384(4G7)     | CYTOCHROME B-5 R92281   |  |
| 1353 | GF201:96(81B5):384(9D10)    | 268258 N30006   |  |
| 1354 | GF201:96(66H8):384(23P15)   | 504678 AA142942   |  |
| 1355 | GF201:96(81D9):384(9H18)    | HOMO SAPIENS MRNA; CDNA DKFZP564J142 (FROM CLONE DKFZP564J142) N75017   |  |
| 1356 | PEROU:96(9F3):384(18L6)     | 299664 N75017   |  |
| 1357 | GF201:96(91H4):384(12O7)    | KYNURENINE HYDROLASE H87471   |  |
| 1358 | GF200:96(18B9):384(5C18)    | TRYPTOPHAN 2,3-DIOXYGENASE T72422   |  |
| 1359 | GF201:96(66H6):384(23P11)   | 810901 AA459293   |  |
| 1360 | GF201:96(96E2):384(13I4)    | ZA {REGION BETWEEN EXONS 35 AND 36 OF THE COMPLEMENT COMPONENT C4 GE} [HUMAN, FETAL ADRENAL GLAND, MRNA, 830 NT] AA664406 |  |
| 1361 | GF201:96(91E8):384(12I15)   | TRANSFORMING GROWTH FACTOR BETA-STIMULATED PROTEIN TSC-22 AA664389  |  |
| 1362 | GF200:96(14H3):384(4O6)     | ACTIVATED LEUCOCYTE CELL ADHESION MOLECULE R13558   |  |
| 1363 | PEROU:96(7D3):384(20H6)     | 2338271 A1912047  |  |
| 1364 | PEROU:96(7D4):384(20H8)     | 1944078 A1201945  |  |
| 1365 | GF200:96(4B7):384(1D13)     | ESTS, HIGHLY SIMILAR TO INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 2 PRECURSOR [H.SAPIENS] H79047                         |  |
| 1366 | GF200:96(29A2):384(8A3)     | ESTS, WEAKLY SIMILAR TO !!!!! ALU SUBFAMILY SQ WARNING ENTRY !!!!! [H.SAPIENS] W20275                                     |  |
| 1367 | GF201:96(80D11):384(9G22)   | 809503 AA454562   |  |
| 1368 | GF201:96(87E10):384(11I19)  | SILVER (MOUSE HOMOLOG) LIKE N67770  |  |
| 1369 | GF200:96(7G1):384(2N2)      | DYSTROBREVIN, ALPHA H09172  |  |
| 1370 | GF201:96(92C12):384(12E24)  | MYELOID/LYMPHOID OR MIXED-LINEAGE LEUKEMIA (TRITHORAX (DROSOPHILA) HOMOLOG); TRANSLOCATED TO, 4 N26539                    |  |
| 1371 | GF201:96(85B6):384(10D12)   | 359597 AA010818   |  |
| 1372 | GF201:96(59A12):384(22A23)  | 364555 AA022601   |  |
| 1373 | GF201:96(99H10):384(14O19)  | 47428 H11088  |  |
| 1374 | GF201:96(83E6):384(10I11)   | 503602 AA131299   |  |
| 1375 | GF202:96(112A1):384(15B1)   | 261194 H98215   |  |
| 1376 | GF202:96(115G7):384(16N14)  | ESTS, WEAKLY SIMILAR TO GTP-BINDING PROTEIN RAB2 [H.SAPIENS] AA156821   |  |
| 1377 | GF201:96(81G1):384(9N2)     | 282868 N50152   |  |
| 1378 | GF201:96(97D8):384(13H16)   | ANKYRIN 3, NODE OF RANVIER (ANKYRIN G) AA677185   |  |
| 1379 | PEROU:96(8D3):384(20H5)     | 364209 AA021558   |  |
| 1380 | GF200:96(8D1):384(2H1)      | ESTS, MODERATELY SIMILAR TO !!!!! ALU SUBFAMILY SQ WARNING ENTRY !!!!! [H.SAPIENS] H59915                                 |  |
| 1381 | GF201:96(101G12):384(14N24) | 81316 T60061  |  |
| 1382 | GF201:96(89F3):384(11L6)    | SEMA DOMAIN, IMMUNOGLOBULIN DOMAIN (IG), SHORT BASIC DOMAIN, SECRETED, (SEMAPHORIN) 3C AA042990                           |  |
| 1383 | GF200:96(4E1):384(1J1)      | ENDOTHELIAL KRUPPEL-LIKE ZINC FINGER PROTEIN H45711   |  |
| 1384 | GF201:96(90G4):384(11N7)    | ESTS, MODERATELY SIMILAR TO (DEFINITION NOT AVAILABLE 4159884) [H.SAPIENS] AA001222                                       |  |
| 1385 | GF200:96(26E12):384(7I24)   | DESMOCOLLIN 2 AA074677  |  |
| 1386 | GF201:96(69E2):384(24J4)    | 321902 W37448   |  |

Table 1

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|------|----------------------------|--|
| 1387 | GF201:96(79D8):384(9G15)   | KERATIN 13 W60057  |
| 1388 | GF200:96(4A3):384(1B5)     | KERATIN 13 W23757  |
| 1389 | GF201:96(65B11):384(23D22) | 134011 R31262  |
| 1390 | GF200:96(19A4):384(5B8)    | 49630 H29256   |
| 1391 | GF200:96(15A9):384(4B18)   | VITAMIN D (1,25-DIHYDROXYVITAMIN D3) RECEPTOR AA485226   |
| 1392 | GF201:96(86E8):384(10J15)  | SYNDECAN 1 AA074511  |
| 1393 | GF201:96(80D12):384(9G24)  | SEMA DOMAIN, IMMUNOGLOBULIN DOMAIN (IG), SHORT BASIC DOMAIN, SECRETED, (SEMAPHORIN) 3F AA454570                          |
| 1394 | GF200:96(16D9):384(4H17)   | PROTEIN TYROSINE PHOSPHATASE, RECEPTOR TYPE, F AA598513  |
| 1395 | GF200:96(12A10):384(3B19)  | BUTYRATE RESPONSE FACTOR 1 (EGF-RESPONSE FACTOR 1) AA424743  |
| 1396 | GF200:96(3F12):384(1L24)   | ANTHRACYCLINE RESISTANCE-ASSOCIATED AA495766   |
| 1397 | GF200:96(3E12):384(1J24)   | MEMBRANE COMPONENT, CHROMOSOME 1, SURFACE MARKER 1 (40KD GLYCOPROTEIN, IDENTIFIED BY MONOCLONAL ANTIBODY GA733) AA454810 |
| 1398 | GF200:96(19B4):384(5D8)    | KERATIN 7 AA489569   |
| 1399 | GF200:96(24B10):384(6D19)  | 813520 AA455591  |
| 1400 | GF201:96(101C9):384(14F18) | HOMO SAPIENS MRNA; CDNA DKFZP586B2022 (FROM CLONE DKFZP586B2022) T52325  |
| 1401 | GF202:96(115A1):384(16B2)  | HOMO SAPIENS AGRIN PRECURSOR MRNA, PARTIAL CDS AA458878  |
| 1402 | GF202:96(112E8):384(15J15) | ESTS, WEAKLY SIMILAR TO KIAA0319 [H.SAPIENS] AA136133  |
| 1403 | GF200:96(14E5):384(4I10)   | ANTIQUIN 1 AA101299  |
| 1404 | GF200:96(26H9):384(7O18)   | HEXOKINASE 1 AA485272  |
| 1405 | GF200:96(23B12):384(6D24)  | HEXOKINASE 1 AA485271  |
| 1406 | GF201:96(90F1):384(11L1)   | LADININ 1 T97710   |
| 1407 | GF200:96(26B1):384(7C2)    | H.SAPIENS MRNA FOR RECEPTOR TYROSINE KINASE EPH (PARTIAL) N90246   |
| 1408 | GF200:96(12A11):384(3B21)  | 144834 R77251  |
| 1409 | GF200:96(19B1):384(5D2)    | CREATINE KINASE, MITOCHONDRIAL 1 (UBIQUITOUS) AA019482   |
| 1410 | PEROU:96(7B6):384(20D12)   | 364302 AA022462  |
| 1411 | PEROU:96(7B4):384(20D8)    | 176461 H43515  |
| 1412 | PEROU:96(10A7):384(18B13)  | RECEPTOR PROTEIN-TYROSINE KINASE EDDR1 H41900  |
| 1413 | GF201:96(64C8):384(23E16)  | HOMO SAPIENS MRNA FOR INOSITOL 1,4,5-TRISPHOSPHATE 3-KINASE ISOENZYME, PARTIAL CDS N46828                                |
| 1414 | GF201:96(92G5):384(12M10)  | PLEXIN 5 AA496565  |
| 1415 | GF200:96(1H6):384(1O11)    | 810873 AA459197  |
| 1416 | GF201:96(61A4):384(22B8)   | 504225 AA131934  |
| 1417 | GF201:96(89H12):384(11P24) | SNF2-RELATED CBP ACTIVATOR PROTEIN AA419088  |
| 1418 | GF200:96(11G1):384(3N2)    | ESTS, WEAKLY SIMILAR TO KIAA0281 [H.SAPIENS] N54395  |
| 1419 | GF201:96(82H3):384(9P5)    | ESTS, WEAKLY SIMILAR TO KIAA0281 [H.SAPIENS] N54395  |
| 1420 | GF201:96(102D2):384(14H3)  | 85804 T72068   |
| 1421 | GF200:96(17H1):384(5O1)    | JUNCTION PLAKOGLOBIN R06417  |
| 1422 | GF201:96(92B9):384(12C18)  | CDP-DIACYLGLYCEROL SYNTHASE (PHOSPHATIDATE CYTIDYLYLTRANSFERASE) 1 R31562  |



Table 1

|      |                            |  |
|------|----------------------------|--|
| 1423 | GF201:96(92F3):384(12K6)   | PROLINE-RICH GLA (G-CARBOXYGLUTAMIC ACID) POLYPEPTIDE 2 AA430552   |
| 1424 | GF201:96(56A6):384(21A12)  | HUMAN DNA SEQUENCE FROM PAC 127B20 ON CHROMOSOME 22Q11.2-QTER, CONTAINS GENE FOR GTPASE-ACTIVATING PROTEIN SIMILAR TO RHOGAP PROTEIN. RIBOSOMAL PROTEIN L6 PSEUDOGENE, ESTS AND CA REPEAT AA037410 |
| 1425 | GF200:96(21F9):384(6K17)   | ESTS, WEAKLY SIMILAR TO LOW-DENSITY LIPOPROTEIN RECEPTOR-RELATED PROTEIN 1 PRECURSOR [H.SAPIENS] AA489246  |
| 1426 | PEROU:96(9D8):384(18H16)   | 416386 W86859  |
| 1427 | PEROU:96(10C10):384(18F19) | PLACENTAL BIKUNIN (KUNITZ-TYPE SERINE PROTEASE INHIBITOR) AA031287   |
| 1428 | GF200:96(21G6):384(6M11)   | SERINE PROTEASE INHIBITOR, KUNITZ TYPE, 2 AA459039   |
| 1429 | PEROU:96(9E1):384(18J2)    | HUMAN PLACENTAL BIKUNIN MRNA COMPLETE CDS AA031287   |
| 1430 | GF201:96(67D3):384(24G5)   | 810728 AA457707  |
| 1431 | GF200:96(30H5):384(8O10)   | HOMO SAPIENS MRNA; CDNA DKFZP586F1318 (FROM CLONE DKFZP586F1318) T77847  |
| 1432 | PEROU:96(9A6):384(18B12)   | 147447 R81173  |
| 1433 | GF201:96(82D9):384(9H17)   | 365517 AA009593  |
| 1434 | GF201:96(66C9):384(23F17)  | HOMO SAPIENS MRNA; CDNA DKFZP586F1223 (FROM CLONE DKFZP586F1223) N59219  |
| 1435 | PEROU:96(9B9):384(18D18)   | 281745 N51744  |
| 1436 | GF201:96(97A9):384(13B18)  | CALPAIN, LARGE POLYPEPTIDE L1 H15456   |
| 1437 | GF201:96(97G1):384(13N2)   | GLUCOSIDASE, ALPHA; ACID (POMPE DISEASE, GLYCOGEN STORAGE DISEASE TYPE II) AA444009  |
| 1438 | GF200:96(31G9):384(8N18)   | ESTS, HIGHLY SIMILAR TO HYPOTHETICAL PROTEIN B, 6.8K [H.SAPIENS] R63543  |
| 1439 | GF201:96(57C10):384(21F20) | PUTATIVE PROSTATE CANCER TUMOR SUPPRESSOR H13424   |
| 1440 | GF201:96(100A2):384(14A4)  | HOMO SAPIENS MRNA; CDNA DKFZP564P0622 (FROM CLONE DKFZP564P0622) H15385  |
| 1441 | GF200:96(18E6):384(5I12)   | SIALYLTRANSFERASE AA497051   |
| 1442 | GF200:96(4G10):384(1N19)   | SIALYLTRANSFERASE AA497051   |
| 1443 | GF200:96(6D8):384(2G16)    | EGF-LIKE-DOMAIN, MULTIPLE 2 H39187   |
| 1444 | GF201:96(79B12):384(9C23)  | 284355 N52136  |
| 1445 | GF201:96(90F4):384(11L7)   | IROQUOIS-CLASS HOMEODOMAIN PROTEIN R46202  |
| 1446 | PEROU:96(5D7):384(20G13)   | BHD-2  |
| 1447 | PEROU:96(8A9):384(20B17)   | ESTS, HIGHLY SIMILAR TO IROQUOIS-CLASS HOMEODOMAIN PROTEIN IRX-1 [H.SAPIENS] R55185  |
| 1448 | PEROU:96(9A7):384(18B14)   | 154654 R55184  |
| 1449 | GF200:96(31C8):384(8F16)   | 137387 R38133  |
| 1450 | GF202:96(114A4):384(16A8)  | ESTS, MODERATELY SIMILAR TO MYOIN HEAVY CHAIN 12 [H.SAPIENS] AA401349  |
| 1451 | GF201:96(95A7):384(13A13)  | 148225 H13688  |
| 1452 | GF200:96(26G6):384(7M12)   | SOLUTE CARRIER FAMILY 2 (FACILITATED GLUCOSE TRANSPORTER), MEMBER 1 H58873   |
| 1453 | GF201:96(88F4):384(11K8)   | SOLUTE CARRIER FAMILY 7 (CATIONIC AMINO ACID TRANSPORTER, Y+ SYSTEM), MEMBER 5 AA419177  |
| 1454 | GF201:96(97D6):384(13H12)  | HOMO SAPIENS CLONE 24551 MRNA SEQUENCE AA630794  |
| 1455 | GF200:96(32A5):384(8B9)    | DISCS, LARGE (DROSOPHILA) HOMOLOG 5 T77840   |
| 1456 | GF200:96(16D7):384(4H13)   | MACROPHAGE STIMULATING 1 RECEPTOR (G-MET-RELATED TYROSINE KINASE) AA173453   |
| 1457 | GF200:96(5H8):384(2O15)    | S100 CALCIUM-BINDING PROTEIN A11 (CALGIZZARIN) AA464731  |

Table 1

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| 1458 | PEROU:96(9C2):384(18F4)    | 306136 N91023   |  |
| 1459 | GF201:96(57B10):384(21D20) | MEMBRANE PROTEIN, PALMITOYLATED 3 (MAGUK P55 SUBFAMILY MEMBER 3) W44685                   |  |
| 1460 | GF200:96(19B3):384(5D6)    | A DISINTEGRIN AND METALLOPROTEINASE DOMAIN 15 (METARGIDIN) AA292676                       |  |
| 1461 | GF200:96(12E4):384(3J7)    | MICROSOMAL GLUTATHIONE S-TRANSFERASE 1 AA495936   |  |
| 1462 | GF201:96(9A45):384(12B9)   | KIAA0429 GENE PRODUCT AA676805  |  |
| 1463 | PEROU:96(7C11):384(20F22)  | KARYOPHERIN ALPHA 4 (IMPORTIN ALPHA 3) A1378946   |  |
| 1464 | GF201:96(79C1):384(9E1)    | 277134 N40917   |  |
| 1465 | GF201:96(60A12):384(22A24) | 795832 AA461497   |  |
| 1466 | GF201:96(86B6):384(10D11)  | VASOACTIVE INTESTINAL PEPTIDE RECEPTOR 1 H73241   |  |
| 1467 | GF201:96(89G7):384(11N14)  | INTER-ALPHA (GLOBULIN) INHIBITOR H4 (PLASMA KALLIKREIN-SENSITIVE GLYCOPROTEIN) N73625     |  |
| 1468 | PEROU:96(2D8):384(19G16)   | SYNUCLEIN, GAMMA (BREAST CANCER-SPECIFIC PROTEIN 1) AA293803                              |  |
| 1469 | GF201:96(91D3):384(12G5)   | ADIPOSE SPECIFIC 2 AA478298   |  |
| 1470 | GF201:96(87H2):384(11O3)   | MONOAMINE OXIDASE A AA011096  |  |
| 1471 | GF202:96(109G3):384(15M5)  | HOMO SAPIENS CLONE 23698 MRNA SEQUENCE AA680300   |  |
| 1472 | GF200:96(12C7):384(3F13)   | GLUTATHIONE S-TRANSFERASE THETA 2 AA490777  |  |
| 1473 | GF201:96(89G11):384(11N22) | MYOSIN VI AA625890  |  |
| 1474 | GF200:96(29E4):384(8I7)    | 470216 AA028987   |  |
| 1475 | GF202:96(110B3):384(15C6)  | S100 CALCIUM-BINDING PROTEIN A13 AA070489   |  |
| 1476 | GF200:96(12A2):384(3B3)    | LUTHERAN BLOOD GROUP (AUBERGER B ANTIGEN INCLUDED) H24954                                 |  |
| 1477 | GF200:96(25C5):384(7E9)    | CYCLIN D1 (PRAD1: PARATHYROID ADENOMATOSIS 1) AA487700                                    |  |
| 1478 | GF200:96(25D3):384(7G5)    | ESTS, MODERATELY SIMILAR TO IIII ALU SUBFAMILY SQ WARNING ENTRY IIII [H.SAPIENS] AA598478 |  |
| 1479 | GF200:96(25C3):384(7E5)    | CYSTATIN C (AMYLOID ANGIOPATHY AND CEREBRAL HEMORRHAGE) AA599177                          |  |
| 1480 | GF201:96(82F1):384(9L1)    | 487831 AA045083   |  |
| 1481 | GF201:96(94H3):384(12P5)   | H.SAPIENS MRNA FOR MYOSIN-I BETA AA485871   |  |
| 1482 | PEROU:96(8B11):384(20D21)  | INTEGRIN, BETA 5 N29501   |  |
| 1483 | GF201:96(65D7):384(23H14)  | 782547 AA431796   |  |
| 1484 | GF200:96(28F5):384(7L9)    | HOMO SAPIENS MRNA; CDNA DKFZP564E1616 (FROM CLONE DKFZP564E1616) H26176                   |  |
| 1485 | GF201:96(96A8):384(13A16)  | ENDOTHELIN 1 H11003   |  |
| 1486 | GF201:96(58G10):384(21N19) | SERUM-INDUCIBLE KINASE AA460152   |  |
| 1487 | GF201:96(64F12):384(23K24) | 795378 AA453495   |  |
| 1488 | GF201:96(64F4):384(23K8)   | 138130 R53797   |  |
| 1489 | GF201:96(97B1):384(13D2)   | WASP FAMILY VERPROLIN-HOMOLOGOUS PROTEIN 3 AA629542                                       |  |
| 1490 | GF200:96(23D5):384(6H10)   | 5-HYDROXYTRYPTAMINE (SEROTONIN) RECEPTOR 2A R55130  |  |
| 1491 | GF200:96(14A8):384(4A16)   | CD9 ANTIGEN (P24) AA412053  |  |
| 1492 | GF200:96(8H11):384(2P21)   | PROTEIN KINASE MITOGEN-ACTIVATED 10 (MAP KINASE) T75436                                   |  |
| 1493 | GF201:96(88E6):384(11I12)  | INOSITOL 1,4,5-TRIPHOSPHATE RECEPTOR, TYPE 3 AA701976                                     |  |
| 1494 | GF201:96(58H10):384(21P19) | 809824 AA455519   |  |
| 1495 | PEROU:96(6G5):384(20M10)   | 510165 AA053251   |  |

Table 1

|      |                             |   |
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| 1496 | GF200:96(1H7):384(1013)     | SOLUTE CARRIER FAMILY 9 (SODIUM/HYDROGEN EXCHANGER), ISOFORM 1 (ANTIporter, NA <sup>+</sup> /H <sup>+</sup> , AMILORIDE SENSITIVE) AA455369       |
| 1497 | GF200:96(7H9):384(2P18)     | HUMAN CLONE 23815 MRNA SEQUENCE AA424516  |
| 1498 | GF200:96(2F9):384(6K18)     | FILAMIN B, BETA (ACTIN-BINDING PROTEIN-278) AA486238  |
| 1499 | GF200:96(27C3):384(7F6)     | ESTS, WEAKLY SIMILAR TO OXYSTEROL-BINDING PROTEIN [H.SAPIENS] R31395  |
| 1500 | GF200:96(25F1):384(7K1)     | CATHEPSIN H AA487346  |
| 1501 | GF202:96(110G8):384(15M16)  | HOMO SAPIENS CHROMOSOME 16 BAC CLONE CIT987SK-A-575C2 T64469  |
| 1502 | GF201:96(68D5):384(24G10)   | 415229 W91879   |
| 1503 | GF201:96(95E10):384(13I19)  | GUANINE NUCLEOTIDE BINDING PROTEIN (G PROTEIN), ALPHA 15 (GQ CLASS) T99303  |
| 1504 | GF201:96(83A5):384(10A9)    | 141726 R69584   |
| 1505 | PEROU:96(3D8):384(19H16)    | MATRIX GLA PROTEIN AA081250   |
| 1506 | GF201:96(87H12):384(11O23)  | MATRIX GLA PROTEIN AA155913   |
| 1507 | GF201:96(93D9):384(12H18)   | CREATINE TRANSPORTER [HUMAN, BRAINSTEM/SPINAL CORD, MRNA, 2283 NT] AA292226   |
| 1508 | GF200:96(13F10):384(4K19)   | CLUSTERIN (COMPLEMENT LYSIS INHIBITOR, SP-40, 40, SULFATED GLYCOPROTEIN 2, TESTOSTERONE-REPPRESSED PROSTATE MESSAGE 2, APOLIPOPROTEIN J) AA130017 |
| 1509 | GF201:96(57H10):384(21P20)  | ESTS, WEAKLY SIMILAR TO (DEFINITION NOT AVAILABLE 4106368) [D.MELANOGASTER] AA454554  |
| 1510 | GF201:96(102A11):384(14B21) | 79576 T62849  |
| 1511 | GF202:96(112G6):384(15N11)  | ESTS, HIGHLY SIMILAR TO UNKNOWN [H.SAPIENS] AA046023  |
| 1512 | GF201:96(92E11):384(12I22)  | PROTEIN PHOSPHATASE 1D MAGNESIUM-DEPENDENT, DELTA ISOFORM N33955  |
| 1513 | GF201:96(56G1):384(21M2)    | AMYLOID BETA PRECURSOR PROTEIN (CYTOPLASMIC TAIL)-BINDING PROTEIN 2 AA431206  |
| 1514 | GF201:96(102B5):384(14D9)   | RAD51 (S. CEREVISIAE) HOMOLOG C T64150  |
| 1515 | GF200:96(28E10):384(7J19)   | ESTS, WEAKLY SIMILAR TO HSP 27 [H.SAPIENS] H57494   |
| 1516 | PEROU:96(10B11):384(18D21)  | ESTS, WEAKLY SIMILAR TO HEAT SHOCK 27 KD PROTEIN [H.SAPIENS] AA010110   |
| 1517 | GF201:96(88A7):384(11A14)   | MYOGLOBIN AA176581  |
| 1518 | PEROU:96(6D12):384(20G24)   | 325165 W49759   |
| 1519 | GF201:96(61B7):384(22D14)   | 283634 N52878   |
| 1520 | GF202:96(114E5):384(16I10)  | 509462 AA056377   |
| 1521 | GF201:96(99F11):384(14K21)  | 47264 H10713  |
| 1522 | GF201:96(98A3):384(13B5)    | UNCOUPLING PROTEIN 2 (MITOCHONDRIAL, PROTON CARRIER) H61243   |
| 1523 | GF201:96(102D5):384(14H9)   | 84419 T73780  |
| 1524 | GF201:96(64D5):384(23G10)   | 488431 AA047441   |
| 1525 | GF201:96(93E11):384(12J22)  | 79935 T61475  |
| 1526 | GF200:96(4C1):384(1F1)      | INHIBITOR OF DNA BINDING 2, DOMINANT NEGATIVE HELIX-LOOP-HELIX PROTEIN H82706   |
| 1527 | PEROU:96(2G10):384(19M20)   | TREFOIL FACTOR 1 (BREAST CANCER, ESTROGEN-INDUCIBLE SEQUENCE EXPRESSED IN) R83818   |
| 1528 | GF200:96(17B11):384(5C21)   | 33045 R19478  |
| 1529 | GF201:96(61B10):384(22D20)  | ESTS, WEAKLY SIMILAR TO !!! ALU SUBFAMILY J WARNING ENTRY !!! [H.SAPIENS] R05293  |
| 1530 | GF202:96(115E9):384(16J18)  | ATPASE, H+ TRANSPORTING, LYSOSOMAL (VACUOLAR PROTON PUMP), MEMBER J AA608567  |
| 1531 | GF202:96(109D6):384(15G11)  | CALCIUM CHANNEL, VOLTAGE-DEPENDENT, BETA 3 SUBUNIT R36947   |
| 1532 | GF201:96(80A6):384(9A12)    | 809789 AA454756   |

Table 1

|      |                             |  |
|------|-----------------------------|--|
| 1533 | GF201:96(97G3):384(13N6)    | H.SAPIENS MRNA FOR TYROSINE KINASE RECEPTOR H15718   |
| 1534 | GF202:96(111C4):384(15F8)   | 730439 AA469975  |
| 1535 | GF201:96(95B2):384(13C3)    | 49351 H15445   |
| 1536 | GF202:96(114A6):384(16A12)  | ESTS, WEAKLY SIMILAR TO MEMBRANE GLYCOPROTEIN [M.MUSCULUS] AA159578                              |
| 1537 | GF201:96(99G1):384(14M1)    | 81449 T63490   |
| 1538 | GF201:96(101C12):384(14F24) | 71863 T52564   |
| 1539 | GF201:96(101B12):384(14D24) | 71863 T51290   |
| 1540 | GF201:96(101B11):384(14D22) | 71863 T51229   |
| 1541 | GF201:96(61A3):384(22B6)    | 417081 W87826  |
| 1542 | GF201:96(68E2):384(24I4)    | ESTS, WEAKLY SIMILAR TO (DEFINITE NOT AVAILABLE 4929751) [H.SAPIENS] AA004846                    |
| 1543 | GF201:96(64D4):384(23G8)    | HOMO SAPIENS MRNA; CDNA DKFZP586J2118 (FROM CLONE DKFZP586J2118) R98407                          |
| 1544 | PEROU:96(8C4):384(20F7)     | 297604 N69835  |
| 1545 | PEROU:96(9C1):384(18F2)     | 297604 N69835  |
| 1546 | GF201:96(87E9):384(11I17)   | DNA SEGMENT, SINGLE COPY PROBE LNS-CAI/LNS-CAII (DELETED IN POLYPOSIS H99681)                    |
| 1547 | PEROU:96(3D1):384(19H2)     | ESTROGEN RECEPTOR 1 AA164586   |
| 1548 | GF201:96(62F10):384(22L19)  | 275798 R93185  |
| 1549 | GF200:96(22E5):384(6I10)    | TUMOR PROTEIN D52 AA459318   |
| 1550 | GF200:96(9D4):384(3G7)      | HUMAN D9 SPICE VARIANT B MRNA, COMPLETE CDS AA453832   |
| 1551 | PEROU:96(10E1):384(18J1)    | MAJOR GASTROINTESTINAL TUMOR-ASSOCIATED PROTEIN GA733-2 PRECURSOR AA055808                       |
| 1552 | GF201:96(89H5):384(11P10)   | KIAA0351 GENE PRODUCT AA402863   |
| 1553 | GF201:96(91F7):384(12K13)   | RAB2, MEMBER RAS ONCOGENE FAMILY-LIKE AA401972   |
| 1554 | PEROU:96(8C5):384(20F9)     | NEBULETTE N77806   |
| 1555 | GF200:96(27B8):384(7D16)    | ESTS, WEAKLY SIMILAR TO UNKNOWN [H.SAPIENS] R01499   |
| 1556 | PEROU:96(8F1):384(20L1)     | 486828 AA042878  |
| 1557 | PEROU:96(9E6):384(18J12)    | 486828 AA042878  |
| 1558 | PEROU:96(10A2):384(18B3)    | XMP T84249   |
| 1559 | GF201:96(91E4):384(12I7)    | EPITHELIAL MEMBRANE PROTEIN 2 T88721   |
| 1560 | GF200:96(17G6):384(5M11)    | KERATIN 8 AA598517   |
| 1561 | GF202:96(160G7):384(17N13)  | 44292 H06273   |
| 1562 | PEROU:96(3B1):384(19D2)     | KERATIN 18 AA070385  |
| 1563 | GF201:96(88C7):384(11E14)   | KERATIN 18 AA664179  |
| 1564 | GF201:96(93D3):384(12H6)    | CLAUDIN 4 AA430665   |
| 1565 | PEROU:96(9E9):384(18J18)    | HCPE-R MRNA FOR CPE-RECEPTOR AA506754  |
| 1566 | PEROU:96(9C7):384(18F14)    | HCPE-R MRNA FOR CPE-RECEPTOR W74492  |
| 1567 | GF200:96(10C10):384(3E20)   | HOMO SAPIENS EPITHELIAL-SPECIFIC TRANSCRIPTION FACTOR ESE-1A (ESE-1) MRNA, COMPLETE CDS AA433851 |
| 1568 | PEROU:96(10A5):384(18B9)    | EPITHELIAL-SPECIFIC TRANSCRIPTION FACTOR ESE-1B (ESE-1) MRNA COMPLETE CDS H27938                 |
| 1569 | GF200:96(17G8):384(5M15)    | SERINE PROTEASE INHIBITOR, KUNITZ TYPE 1 AA464250  |
| 1570 | GF200:96(15C11):384(4F22)   | TRANSFORMING GROWTH FACTOR, BETA 3 AA040617  |

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Table 1

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| 1571 | PEROU:96(9E5):384(18J10)    | TRANSFORMING GROWTH FACTOR BETA 3 AA040616  |
| 1572 | PEROU:96(10D5):384(18H9)    | TRANSFORMING GROWTH FACTOR BETA 3 AA040616  |
| 1573 | GF200:96(17F2):384(5K3)     | LYSOSOMAL-ASSOCIATED MEMBRANE PROTEIN 1 H29077  |
| 1574 | GF201:96(55A5):384(2IA9)    | ISLET CELL AUTOANTIGEN 1 (69KD) AA491302  |
| 1575 | GF201:96(102A9):384(14B17)  | ESTS, MODERATELY SIMILAR TO K02E10.2 [C.ELEGANS] T62552                                     |
| 1576 | GF201:96(102B10):384(14D19) | 82869 T69270  |
| 1577 | GF202:96(109D11):384(15G21) | SELENIUM BINDING PROTEIN 1 T65736   |
| 1578 | GF202:96(116D8):384(16H15)  | HOMO SAPIENS MRNA FOR HYPOTHETICAL PROTEIN AA487488   |
| 1579 | GF201:96(87B9):384(11C17)   | PROLACTIN RECEPTOR R63647   |
| 1580 | PEROU:96(8C7):384(20F13)    | 321658 W32933   |
| 1581 | PEROU:96(9C3):384(18F6)     | 321658 W32933   |
| 1582 | PEROU:96(8B3):384(20D5)     | 202658 H53479   |
| 1583 | PEROU:96(9B3):384(18D6)     | 202658 H53479   |
| 1584 | GF201:96(56H9):384(21O18)   | ESTS, MODERATELY SIMILAR TO !!!! ALU SUBFAMILY SQ WARNING ENTRY !!!! [H.SAPIENS] AA464739   |
| 1585 | GF201:96(94D9):384(12H17)   | 197520 H52110   |
| 1586 | PEROU:96(8E8):384(20J15)    | KIAA0182 AA037466   |
| 1587 | GF200:96(6G9):384(2M18)     | HUMAN MRNA FOR KIAA0182 GENE, PARTIAL CDS H05563  |
| 1588 | GF201:96(93D5):384(12H10)   | SOLUTE CARRIER FAMILY 9 (SODIUM/HYDROGEN EXCHANGER), ISOFORM 3 REGULATORY FACTOR 1 AA425299 |
| 1589 | PEROU:96(882):384(20D3)     | 179211 H50224   |
| 1590 | PEROU:96(9B2):384(18D4)     | 179211 H50224   |
| 1591 | GF201:96(95H4):384(13O7)    | FRUCTOSE-BISPHOSPHATASE 1 AA699427  |
| 1592 | GF201:96(90H7):384(11P13)   | HUMAN ENDOGENOUS RETROVIRUS ENVELOPE REGION MRNA (PL1) AA701655                             |
| 1593 | GF201:96(82C9):384(9F17)    | X-BOX BINDING PROTEIN 1 W90128  |
| 1594 | PEROU:96(7F6):384(20L12)    | HEPATOCYTE NUCLEAR FACTOR 3, ALPHA T74639   |
| 1595 | GF200:96(12E12):384(3J23)   | GATA-BINDING PROTEIN 3 H72474   |
| 1596 | PEROU:96(6A11):384(20A22)   | GATA-BINDING PROTEIN 3 R31442   |
| 1597 | PEROU:96(9A4):384(18B8)     | GATA-BINDING PROTEIN 3 R31441   |
| 1598 | GF200:96(12F12):384(3L23)   | GATA-BINDING PROTEIN 3 AA058828   |
| 1599 | PEROU:96(4D8):384(19H15)    | ESTROGEN RECEPTOR 1 AA291702  |
| 1600 | GF201:96(96A7):384(13A14)   | ESTROGEN RECEPTOR 1 AA291749  |
| 1601 | PEROU:96(8B8):384(20D15)    | ANNEXIN XXXI N76688   |
| 1602 | PEROU:96(9B5):384(18D10)    | ANNEXIN XXXI N76688   |
| 1603 | GF201:96(57B11):384(21D22)  | HOMO SAPIENS MRNA; CDNA DKFZP434A091 (FROM CLONE DKFZP434A091) AA431988                     |
| 1604 | GF200:96(5E3):384(215)      | CANALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER C N80617                                |
| 1605 | GF200:96(6A3):384(2A6)      | HOMO SAPIENS MRNA FOR NEUROBLASTOMA, COMPLETE CDS AA481950                                  |
| 1606 | PEROU:96(10D1):384(18H1)    | CELLULAR RETINOIC ACID-BINDING PROTEIN 2 AA036987   |
| 1607 | GF200:96(25E7):384(7I13)    | CELLULAR RETINOIC ACID-BINDING PROTEIN 2 AA598508   |
| 1608 | PEROU:96(8E4):384(20J7)     | CELLULAR RETINOIC ACID-BINDING PROTEIN 2 AA036986   |

Table 1

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| 1609 | GF201:96(88E10):384(11I20) | HUMAN SECRETORY PROTEIN (P1.B) MRNA, COMPLETE CDS N74131                                     |
| 1610 | GF200:96(6A5):384(2A10)    | MSH (DROSOPHILA) HOME BOX HOMOLOG 2 AA195636   |
| 1611 | GF201:96(98C7):384(13F13)  | HUMAN CHROMOSOME 16 BAC CLONE CIT987SK-254P9 H23265  |
| 1612 | GF201:96(61F4):384(22L8)   | 204483 H58234  |
| 1613 | GF201:96(88E3):384(11I6)   | HUMAN INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 5 (IGFBP5) MRNA T52830                      |
| 1614 | PEROU:96(9E8):384(18J16)   | INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 5 (IGFBP5) AA054451                               |
| 1615 | GF200:96(7D2):384(2H4)     | HUMAN INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 5 (IGFBP5) MRNA H08560                      |
| 1616 | GF201:96(90D2):384(11H3)   | HUMAN MRNA FOR KIAA0061 GENE, PARTIAL CDS N33237   |
| 1617 | GF201:96(90C2):384(11F3)   | HUMAN MRNA FOR KIAA0143 GENE, PARTIAL CDS AA112057   |
| 1618 | GF201:96(90E2):384(11J3)   | CYSTEINE-RICH PROTEIN 2 AA485427   |
| 1619 | PEROU:96(3A2):384(19B4)    | PDGF BETA T49539   |
| 1620 | GF200:96(16G1):384(4N1)    | 67654 T49539   |
| 1621 | PEROU:96(6C7):384(20E14)   | RAS HOMOLOG GENE FAMILY, MEMBER B H89046   |
| 1622 | GF200:96(1F7):384(1K13)    | RAS HOMOLOG GENE FAMILY, MEMBER B AA495846   |
| 1623 | PEROU:96(8A4):384(20B7)    | 140018 R63971  |
| 1624 | PEROU:96(9A5):384(18B10)   | 140018 R63971  |
| 1625 | GF201:96(10I1):384(14B2)   | 81475 T63511   |
| 1626 | GF201:96(96D4):384(13G8)   | CYTOCHROME P450, SUBFAMILY I1J (ARACHIDONIC ACID EPOXYGENASE) POLYPEPTIDE 2 H09076           |
| 1627 | GF200:96(26H5):384(70I0)   | P53-INDUCED PROTEIN H12189   |
| 1628 | PEROU:96(10E9):384(18J17)  | HOMO SAPIENS BREAST CANCER PUTATIVE TRANSCRIPTION FACTOR (ZABC1) MRNA, COMPLETE CDS AA460802 |
| 1629 | PEROU:96(10E8):384(18J15)  | HOMO SAPIENS BREAST CANCER PUTATIVE TRANSCRIPTION FACTOR (ZABC1) MRNA, COMPLETE CDS AA782528 |
| 1630 | GF201:96(93C7):384(12F14)  | SULFOTRANSFERASE FAMILY 2B, MEMBER 1 R73584  |
| 1631 | PEROU:96(1F8):384(19K15)   | HEREDITARY HEMOCHROMATOSIS R07647  |
| 1632 | GF200:96(17D7):384(5G13)   | MUCIN 1, TRANSMEMBRANE AA488073  |
| 1633 | PEROU:96(1G8):384(19M15)   | 156053 R72491  |
| 1634 | GF201:96(94A4):384(12B7)   | 447786 AA702350  |
| 1635 | GF201:96(62B2):384(22D3)   | 415317 W92160  |
| 1636 | GF201:96(99A7):384(14A13)  | IGG FC BINDING PROTEIN R52030  |
| 1637 | GF200:96(24B11):384(6D21)  | EPIDIDYMIS-SPECIFIC, WHEY-ACIDIC PROTEIN TYPE, FOUR-DISULFIDE CORE AA451904                  |
| 1638 | GF200:96(10A9):384(3A18)   | SRC KINASE-ASSOCIATED PHOSPHOPROTEIN OF 55 KDA R01281  |
| 1639 | GF200:96(28H2):384(7P3)    | CARBONIC ANHYDRASE XI N52089   |
| 1640 | GF201:96(87D4):384(11G7)   | PHOSPHOFRUCTOKINASE, MUSCLE AA099169   |
| 1641 | GF200:96(27C5):384(7F10)   | HUMAN HEART MRNA FOR HEAT SHOCK PROTEIN 90, PARTIAL CDS AA064973                             |
| 1642 | GF200:96(26F1):384(7K2)    | 130843 R22306  |
| 1643 | PEROU:96(8D12):384(20H23)  | 470105 AA029949  |
| 1644 | GF201:96(85D6):384(10H12)  | H2B HISTONE FAMILY, MEMBER Q AA010223  |
| 1645 | GF200:96(7D9):384(2H18)    | H2B HISTONE FAMILY, MEMBER Q AA456695  |

Table 1

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| 1646 | GF201:96(68E7):384(24114)   | H2A HISTONE FAMILY, MEMBER L N50797   |
| 1647 | GF200:96(11A12):384(3B24)   | H1 HISTONE FAMILY, MEMBER 2 T66816  |
| 1648 | GF201:96(68A3):384(24A6)    | 322461 W15305   |
| 1649 | GF201:96(68B11):384(23D21)  | 289734 N62965   |
| 1650 | GF201:96(91H2):384(12O3)    | DUAL SPECIFICITY PHOSPHATASE 4 AA444049   |
| 1651 | GF201:96(80G4):384(9M8)     | CALCIUM CHANNEL, VOLTAGE-DEPENDENT, ALPHA 2/DELTA SUBUNIT 2 N53512  |
| 1652 | GF200:96(14G9):384(4M18)    | ACYL-COENZYME A DEHYDROGENASE, SHORT/BRANCHED CHAIN H96140  |
| 1653 | PEROU:96(4B3):384(19D5)     | CYTOCHROME P450, SUBFAMILY IIB (PHENOBARBITAL-INDUCIBLE), POLYPEPTIDE 6 H41908  |
| 1654 | GF200:96(11C7):384(3F14)    | PROTEASE INHIBITOR 12 (NEUROSERPIN) AA115876  |
| 1655 | GF200:96(31C3):384(8F6)     | HUMAN DNA SEQUENCE FROM CLONE 167A19 ON CHROMOSOME 1P32.1-33. CONTAINS THREE GENES FOR NOVEL PROTEINS; THE DIO1 GENE FOR TYPE I IODOTHYRONINE DEIODINASE (EC 3.8.1.4, TXD11, ITD11) AND AN HNRNP A3 (HETEROGENOUS NUCLEAR RIBONUCLEOPR N74025 |
| 1656 | GF200:96(14D5):384(4G10)    | AUTOCRINE MOTILITY FACTOR RECEPTOR AA479243   |
| 1657 | GF200:96(13D9):384(4G17)    | CYTOCHROME P450, SUBFAMILY IIA (PHENOBARBITAL-INDUCIBLE), POLYPEPTIDE 7 T73031  |
| 1658 | GF200:96(1F2):384(1K3)      | ANGIOTENSIN RECEPTOR 1 H66116   |
| 1659 | GF200:96(28H3):384(7P5)     | ESTS, WEAKLY SIMILAR TO TUMOROUS IMAGINAL DISCS PROTEIN TID56 HOMOLOG [H.SAPIENS] T95268  |
| 1660 | GF200:96(13B7):384(4C13)    | QUINOID DIHYDROPTERIDINE REDUCTASE R38198   |
| 1661 | GF201:96(90E9):384(11J17)   | LYMPHOID NUCLEAR PROTEIN RELATED TO AF4 H99588  |
| 1662 | GF201:96(94F3):384(12L5)    | NUCLEOPORIN 88KD AA479888   |
| 1663 | PEROU:96(6D8):384(20G16)    | 307220 N95180   |
| 1664 | GF200:96(28D11):384(7H21)   | HOMO SAPIENS MRNA; CDNA DKFZP564P0662 (FROM CLONE DKFZP564P0662) R27680   |
| 1665 | GF200:96(26H10):384(7O20)   | HEPSIN (TRANSMEMBRANE PROTEASE, SERINE 1) H62162  |
| 1666 | GF200:96(29D11):384(8G21)   | ESTS, HIGHLY SIMILAR TO TRANSCRIPTION ELONGATION FACTOR TFIIS.H [H.SAPIENS] R09980  |
| 1667 | GF201:96(80E10):384(9I20)   | 795744 AA460298   |
| 1668 | PEROU:96(6B10):384(20C20)   | N-ACETYLTRANSFERASE 1 (ARYLAMINE N-ACETYLTRANSFERASE) R91803  |
| 1669 | GF201:96(97H5):384(13P10)   | N-ACETYLTRANSFERASE 1 (ARYLAMINE N-ACETYLTRANSFERASE) T67128  |
| 1670 | GF201:96(64C11):384(23E22)  | 503581 AA131239   |
| 1671 | GF200:96(8C12):384(2F23)    | HUMAN BREAST CANCER, ESTROGEN REGULATED LIV-1 PROTEIN (LIV-1) MRNA, PARTIAL CDS H29407  |
| 1672 | GF201:96(89B3):384(11D6)    | N-ACYLSPHINGOSINE AMIDOHYDROLASE (ACID CERAMIDASE) AA664155   |
| 1673 | GF200:96(12H10):384(3P19)   | EPOXIDE HYDROLASE 2, CYTOPLASMIC R73525   |
| 1674 | GF201:96(97C6):384(13F12)   | B-CELL CLL/LYMPHOMA 2 W63749  |
| 1675 | GF201:96(100G11):384(14M22) | ESTS, HIGHLY SIMILAR TO (DEFINITE NOT AVAILABLE 4929557) [H.SAPIENS] T74688   |
| 1676 | GF200:96(22G7):384(6M14)    | BASIC HELIX-LOOP-HELIX DOMAIN CONTAINING, CLASS B, 2 T62084   |
| 1677 | GF201:96(62D11):384(22H21)  | FORKHEAD (DROSOPHILA) HOMOLOG 1 (RHABDOMYOSARCOMA) AA448277   |
| 1678 | GF201:96(91E3):384(12I5)    | ACTIVATED P21CDC42HS KINASE AA427891  |
| 1679 | GF200:96(6D3):384(2G6)      | HUMAN MRNA FOR KIA0303 GENE, PARTIAL CDS AA418846   |
| 1680 | GF201:96(59A7):384(22A13)   | 487929 AA045481   |

Table 1

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| 1681 | GF200:96(7D8):384(2H16)     | ZINC FINGER PROTEIN HOMOLOGOUS TO ZFP103 IN MOUSE AA429297  |
| 1682 | GF200:96(8D4):384(2H7)      | CELL DIVISION CYCLE 4-LIKE AA041499   |
| 1683 | PEROU:96(9B4):384(18D8)     | ESTS, WEAKLY SIMILAR TO P1.11659 5 N47593   |
| 1684 | GF202:96(11B9):384(15D18)   | ESTS, WEAKLY SIMILAR TO (DEFINE NOT AVAILABLE 4502327) [H.SAPIENS] T72850   |
| 1685 | GF200:96(29D2):384(8G3)     | ESTS, MODERATELY SIMILAR TO IIII ALU SUBFAMILY SQ WARNING ENTRY IIII [H.SAPIENS] R70598                               |
| 1686 | PEROU:96(6C2):384(20E4)     | 220376 H86813   |
| 1687 | GF201:96(100H8):384(14O16)  | HOMO SAPIENS MRNA; CDNA DKFZP434H071 (FROM CLONE DKFZP434H071) T41078   |
| 1688 | GF201:96(93D10):384(12H20)  | ESTS, WEAKLY SIMILAR TO IIII ALU SUBFAMILY J WARNING ENTRY IIII [H.SAPIENS] AA669222                                  |
| 1689 | GF202:96(109A8):384(15A15)  | T3 RECEPTOR-ASSOCIATING COFACTOR-1 [HUMAN, FETAL LIVER, MRNA, 2930 NT] AA400234                                       |
| 1690 | GF201:96(63H11):384(23O21)  | 416556 W86987   |
| 1691 | GF200:96(7H5):384(2P10)     | HUMAN CLONE 23907 MRNA SEQUENCE R06567  |
| 1692 | PEROU:96(6F3):384(20K6)     | ESTS, WEAKLY SIMILAR TO KIAA0108 [H.SAPIENS] AA033947   |
| 1693 | GF202:96(112E11):384(15J21) | ESTS, WEAKLY SIMILAR TO KIAA0108 [H.SAPIENS] AA600214   |
| 1694 | GF200:96(16C10):384(4F19)   | RAB2, MEMBER RAS ONCOGENE FAMILY T82414   |
| 1695 | GF200:96(22C1):384(6E2)     | TISSUE SPECIFIC TRANSPLANTATION ANTIGEN P35B AA421687   |
| 1696 | GF201:96(55C3):384(21E5)    | ESTS, WEAKLY SIMILAR TO RBCK2 [R.NORVEGICUS] AA434161   |
| 1697 | GF200:96(29D10):384(8G19)   | ESTS, WEAKLY SIMILAR TO ORF2 CONTAINS A REVERSE TRANSCRIPTASE DOMAIN [H.SAPIENS] R38239                               |
| 1698 | GF201:96(56F11):384(21K22)  | ESTS, MODERATELY SIMILAR TO NMDA RECEPTOR GLUTAMATE-BINDING CHAIN [H.SAPIENS] AA455271                                |
| 1699 | PEROU:96(5C4):384(20E7)     | HSP27   |
| 1700 | GF201:96(82F6):384(9L11)    | ESTS, HIGHLY SIMILAR TO TRANSDUCIN-LIKE ENHANCER PROTEIN 3 [H.SAPIENS] AA136692                                       |
| 1701 | GF200:96(16H3):384(4P5)     | PARVALBUMIN AA010609  |
| 1702 | GF201:96(100C2):384(14E4)   | 50582 H17038  |
| 1703 | GF201:96(99H6):384(14O11)   | 51700 H22854  |
| 1704 | GF201:96(65C8):384(23F16)   | CYTIDINE MONOPHOSPHATE-N-ACETYLNURAMINIC ACID HYDROXYLASE (CMP-N-ACETYLNURAMINATE MONOOXYGENASE) N29639               |
| 1705 | GF201:96(91E1):384(12I1)    | ADENOSINE A2A RECEPTOR N57553   |
| 1706 | GF200:96(10C4):384(3E8)     | HOMO SAPIENS INDUCIBLE PROTEIN MRNA, COMPLETE CDS H12043  |
| 1707 | GF201:96(99F2):384(14K3)    | 46896 H09818  |
| 1708 | GF200:96(9F2):384(3K3)      | REGULATOR OF G-PROTEIN SIGNALLING 16 AA453774   |
| 1709 | GF201:96(66D12):384(23H23)  | 418240 W90241   |
| 1710 | GF200:96(6H10):384(2O20)    | KIAA0130 GENE PRODUCT N76581  |
| 1711 | PEROU:96(9C11):384(18F22)   | ERBB-2 RECEPTOR PROTEIN-TYROSINE KINASE PRECURSOR AA025141  |
| 1712 | GF200:96(24B4):384(6D7)     | STEROIDOGENIC ACUTE REGULATORY PROTEIN RELATED AA504710   |
| 1713 | PEROU:96(10E11):384(18J21)  | ERBB2-POLYA X03363  |
| 1714 | PEROU:96(6E5):384(20I10)    | V-ERB-B2 AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL ONCOGENE HOMOLOG 2 (NEURO/GLOBLASTOMA DERIVED ONCOGENE HOMOLOG) AA025141 |



Table 1

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| 1715 | GF200:96(15B6):384(4D12)    | V-ERB-B2 AVIAN ERYTHROBLASTIC LEUKEMIA VIRAL ONCOGENE HOMOLOG 2 (NEURO/GLIOBLASTOMA DERIVED ONCOGENE HOMOLOG) AA443351      |
| 1716 | PEROU:96(2F1):384(19K2)     | ERBB2 AA481939  |
| 1717 | GF201:96(88H2):384(11O4)    | GROWTH FACTOR RECEPTOR-BOUND PROTEIN 7 H53703   |
| 1718 | PEROU:96(8A1):384(20B1)     | 68400 T57034  |
| 1719 | PEROU:96(6A1):384(20A2)     | 68400 T57034  |
| 1720 | PEROU:96(7F8):384(20L16)    | SWI/SNF RELATED, MATRIX ASSOCIATED, ACTIN DEPENDENT REGULATOR OF CHROMATIN, SUBFAMILY E, MEMBER 1 W63613                    |
| 1721 | GF201:96(65B12):384(23D24)  | ESTS, WEAKLY SIMILAR TO ENVELOPE PROTEIN [H.SAPIENS] W37778   |
| 1722 | GF201:96(69B5):384(24D10)   | 271076 N29918   |
| 1723 | GF200:96(3H12):384(1P24)    | GLYCINE AMIDINOTRANSFERASE (L-ARGININE:GLYCINE AMIDINOTRANSFERASE) R61229   |
| 1724 | PEROU:96(7H11):384(20P22)   | MOUSE MITOCHONDRION, COMPLETE GENOME NC_001569  |
| 1725 | GF201:96(97D9):384(13H18)   | AMYLO-1,6-GLUCOSIDASE, 4-ALPHA-GLUCANOTRANSFERASE (GLYCOGEN DEBRANCHING ENZYME, GLYCOGEN STORAGE DISEASE TYPE III) AA668425 |
| 1726 | GF200:96(17B2):384(5C3)     | ORNITHINE AMINOTRANSFERASE (GYRATE ATROPHY) AA446819  |
| 1727 | GF200:96(13C5):384(4E9)     | DAMAGE-SPECIFIC DNA BINDING PROTEIN 2 (48KD) AA406449   |
| 1728 | GF201:96(87C8):384(11E15)   | PLASTIN 1 (1 ISOFORM) AA017379  |
| 1729 | GF201:96(99C12):384(14E23)  | ELECTRON-TRANSFER-FLAVOPROTEIN, BETA POLYPEPTIDE T62040   |
| 1730 | GF201:96(82C4):384(9F7)     | 347276 W80996   |
| 1731 | GF201:96(55A8):384(21A15)   | ACYL-COENZYME A OXIDASE 2, BRANCHED CHAIN T71782  |
| 1732 | PEROU:96(6C11):384(20E22)   | 6-PHOSPHOFRUCTO-2-KINASE/FRUCTOSE-2,6-BIPHOSPHATASE 3 N93901  |
| 1733 | PEROU:96(1A6):384(19A11)    | ERK3 PROTEIN KINASE AA603152  |
| 1734 | GF201:96(100G5):384(14M10)  | 52339 H23278  |
| 1735 | GF202:96(116H11):384(16P21) | CATENIN (CADHERIN-ASSOCIATED PROTEIN), ALPHA-LIKE 1 AA621315  |
| 1736 | GF201:96(91A5):384(12A9)    | 3-HYDROXY-3-METHYLGLUTARYL-COENZYME A SYNTHASE 2 (MITOCHONDRIAL) AA496149   |
| 1737 | GF201:96(91A4):384(12A7)    | 470279 AA028905   |
| 1738 | GF201:96(96G10):384(13M20)  | CARNITINE ACETYLTRANSFERASE AA621218  |
| 1739 | GF202:96(114C7):384(16E14)  | 78736 T61888  |
| 1740 | GF201:96(101C2):384(14F4)   | 72498 T51936  |
| 1741 | GF201:96(89D6):384(11H12)   | NEUROGRANIN (PROTEIN KINASE C SUBSTRATE, RC3) H49511  |
| 1742 | PEROU:96(9E3):384(18J6)     | TRANSFORMING GROWTH FACTOR BETA AA033601  |
| 1743 | GF201:96(79A6):384(9A11)    | KIAA0057 GENE PRODUCT H59726  |
| 1744 | GF201:96(84F4):384(10K8)    | TRANSDUCIN (BETA)-LIKE 1 AA149637   |
| 1745 | GF202:96(113B1):384(16C1)   | 837908 AA434090   |
| 1746 | GF200:96(26H12):384(7O24)   | H.SAPIENS MRNA FOR RAT HREV107-LIKE PROTEIN AA476543  |
| 1747 | GF201:96(95F4):384(13K7)    | GLUTATHIONE S-TRANSFERASE THETA 1 H99813  |
| 1748 | GF201:96(86B7):384(10D13)   | URACIL-DNA GLYCOSYLASE 2 AA425900   |
| 1749 | GF200:96(11G7):384(3N14)    | TRANSCRIPTION FACTOR AP-2 BETA (ACTIVATING ENHANCER-BINDING PROTEIN 2 BETA) AA018906  |
| 1750 | GF200:96(31A5):384(8B10)    | HOMO SAPIENS CLONE 23915 MRNA SEQUENCE H51765   |

Table 1

|      |                           |                                       |   |
|------|---------------------------|---------------------------------------|---|
| 1751 | GF200:96(31A4):384(8B8)   | 78S816 AA449048                       | PHOSPHODIESTERASE 1/NUCLEOTIDE PYROPHOSPHATASE 1 (HOMOLOGOUS TO MOUSE LY-41 ANTIGEN) T70503 |
| 1752 | GF200:96(17A10):384(5A19) |                                       |   |
| 1753 | GF200:96(5B3):384(2C5)    | DUAL SPECIFICITY PHOSPHATASE 5 W65461 |   |

Table 1

|    | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 1  | 1       | -0.00125                 | 0.3059                   | 0.3264                  | 0.6647                  | 0.6006                   | 0.3391                   | 0.9412                 | -0.4488                 |
| 2  | 1       | -0.6319                  | -0.2647                  | -0.1142                 | 0.1341                  | 6.39E-09                 | 0.6085                   | 0.1006                 | -0.1594                 |
| 3  | 1       | 0.9575                   | 0.5247                   | -0.7048                 | -0.1366                 | -0.3206                  | 0.4679                   | -0.76                  | 0.07                    |
| 4  | 1       | 0.3475                   | 1.895                    | -0.7348                 | -0.1866                 | -0.5406                  | 0.03789                  |                        | -3.85E-09               |
| 5  | 1       | -0.6525                  | 0.04469                  |                         | 0.7834                  | -0.2806                  |                          |                        | -3.85E-09               |
| 6  | 1       | 0.1815                   |                          | -0.5808                 | 0.5774                  | -0.2566                  | -0.3281                  | 0.654                  |                         |
| 7  | 1       | 0.1455                   | -1.057                   | -0.9568                 | -0.6486                 | -0.5627                  | -0.1141                  | -0.102                 | -0.322                  |
| 8  | 1       | -0.2875                  | -0.1203                  | 0.1502                  | 0.2984                  | 0.1144                   | 0.07289                  | 1.525                  | 0.285                   |
| 9  | 1       | -0.1223                  | -0.5952                  | 0.5654                  | 0.5336                  | 1.12                     | 1.088                    | 0.2402                 | -0.6098                 |
| 10 | 1       | 0.0075                   | 0.07469                  | 0.6352                  | 0.3834                  | -0.3906                  | 0.1279                   |                        | -0.08                   |
| 11 | 1       | -0.5075                  | 0.5497                   | 0.4002                  | 0.1584                  | -0.1656                  | -0.3071                  | 1.635                  | 0.035                   |
| 12 | 1       | -1.019                   | -0.1622                  | 0.06832                 | 0.5566                  | 0.3025                   | -0.389                   | 1.173                  | 0.3831                  |
| 13 | 1       | 0.2733                   | 0.4405                   | -0.129                  | 0.4892                  | 0.9052                   | 0.4737                   | 0.9358                 | -0.1842                 |
| 14 | 1       | 0.2475                   | -0.03531                 | 0.4552                  | 0.1534                  | 0.5394                   | 0.3279                   | -0.18                  | 0.41                    |
| 15 | 1       | 0.5373                   | 0.7845                   | 0.855                   | -0.4167                 | 0.2592                   | 0.01773                  |                        | 0.3698                  |
| 16 | 1       | 0.7169                   | 0.5741                   | 0.1346                  | -0.2072                 | 0.2588                   | 0.2073                   | 0.6194                 | 0.1294                  |
| 17 | 1       | 1.127                    | -1.127                   | 0.3277                  | -0.4841                 | 0.1719                   | 0.2304                   | 0.2725                 | -0.3875                 |
| 18 | 1       | -0.331                   | 0.08621                  | -0.9133                 | -1.245                  | -0.0791                  | -0.7306                  | -0.2285                | 2.232                   |
| 19 | 1       | -0.5646                  | 1.033                    | 0.01314                 | -0.07861                | 0.9973                   | 0.4258                   |                        | 0.3679                  |
| 20 | 1       | 0                        | -0.3028                  | 0.1177                  | 0.06594                 | 0.8019                   | 0.2804                   | -0.2975                | 0.3325                  |
| 21 | 1       | -0.04852                 | 0.04867                  | 0.2692                  | 0.3974                  | 0.5834                   | -0.04812                 | -0.856                 | 0.564                   |
| 22 | 1       | 0                        | -1.453                   | -1.182                  | -0.8141                 | -0.1481                  | -0.7796                  | 0.1325                 | -0.6775                 |
| 23 | 1       | 0.9163                   | 1.503                    | 0.9639                  | 0.3722                  | 1.138                    | 0.5766                   | 0.6787                 | 1.349                   |
| 24 | 1       | 2.033                    | 2.23                     | 0.9702                  | 0.5084                  | 2.564                    | 2.413                    | 0.015                  | 1.055                   |
| 25 | 1       | 2.455                    | 0.7122                   | 0.9227                  | 0.7409                  | 2.217                    |                          | 1.528                  | 1.198                   |
| 26 | 1       | 1.598                    | 2.055                    | 1.485                   | 0.9834                  | 2.269                    | 1.968                    |                        | -0.5                    |
| 27 | 1       | 0.04275                  | 0.3299                   | 0.0004492               | -0.05131                | 0.2446                   | -0.05686                 | 0.8553                 | -0.1947                 |
| 28 | 1       | 0.6302                   | 1.387                    | 0.7479                  | 0.1162                  | 0.6721                   | -0.3894                  | -0.03727               | 0.5627                  |
| 29 | 1       | 0.4375                   | 0.9947                   | 0.8652                  | 0.2634                  | 0.2794                   | -0.3421                  | -0.55                  | -0.02                   |
| 30 | 1       | -0.7225                  | -0.3253                  | -0.0948                 | -0.9266                 | -0.7006                  | 1.768                    | -0.53                  | -1.15                   |
| 31 | 1       | -0.5414                  | 0.05578                  | -0.03371                | -1.535                  | -1.18                    | -0.851                   | -0.7989                | -1.209                  |
| 32 | 1       | -0.5862                  | 0.1609                   | 0.1814                  | 0.5497                  | -0.05437                 | 0.7841                   |                        | -0.2837                 |
| 33 | 1       | -0.317                   | 0.6802                   | -0.05926                | 0.09898                 | 0.5949                   | -0.4266                  |                        | 1.246                   |
| 34 | 1       | 0.1211                   | -0.5817                  | 0.9988                  |                         | 0.273                    |                          | -0.5264                | -0.3964                 |
| 35 | 1       | 0.4375                   | -0.03531                 | -0.2948                 | -0.2166                 | 0.4394                   | 0.4679                   | -0.48                  | -0.53                   |
| 36 | 1       | -0.0007031               | 0.07648                  | -0.643                  | 0.1452                  | -0.1988                  | -0.04031                 |                        | 0.0618                  |

Table 1

|    | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 37 | 1       | 0.2278                   | -0.935                   | -0.3745                 | -0.2363                 | 0.3197                   | 0.008203                 | 1.45                   | -0.5597                 |
| 38 | 1       | 0.8163                   | -0.1066                  | 0.2039                  | -0.1378                 | 0.6681                   | 0.8266                   | 1.359                  | 0.6387                  |
| 39 | 1       | 0.7475                   | -0.2153                  | 0.1552                  | -0.1566                 | 0.7094                   | 0.9279                   | 1.71                   | 0.83                    |
| 40 | 1       | 0.1725                   | -0.03031                 | 0.4102                  | 0.8384                  | -0.4156                  |                          |                        | -0.355                  |
| 41 | 1       | 0.04031                  | -0.4325                  | -0.142                  | 0.4862                  | -0.5678                  | 0.0007031                | 0.07281                | -0.05719                |
| 42 | 1       | 0.1986                   | -0.004219                | 0.1263                  | 0.004531                | -0.2095                  | 0.309                    | 0.4611                 | 0.01109                 |
| 43 | 1       | -0.13                    | -0.02281                 | -0.4423                 | -0.1341                 | -0.3181                  | -0.1896                  | -0.8775                | -0.1775                 |
| 44 | 1       | -0.2125                  | 0.4547                   | 0.3252                  | 0.6634                  | -0.3906                  | 0.5379                   | 0.34                   | 0.22                    |
| 45 | 1       | 0.0075                   | 0.7647                   | 0.7952                  | 1.453                   | -0.03063                 | 0.5479                   | 0.48                   | 0.16                    |
| 46 | 1       | -0.2752                  | 0.632                    | 0.8425                  | 1.111                   | -0.2934                  | 1.725                    | 1.377                  | 0.5673                  |
| 47 | 1       | 0.8686                   | 1.736                    | 1.556                   | 0.3945                  | 1.23                     | 0.979                    | -0.3589                | 0.9011                  |
| 48 | 1       | -0.008203                | 0.329                    | 0.2895                  | 0.1377                  |                          |                          | 0.8643                 | 0.1343                  |
| 49 | 1       | -0.03375                 | -0.5366                  | -0.08605                | -0.4878                 | -0.3919                  | -0.1734                  |                        | 0.2787                  |
| 50 | 1       | 0.2875                   | 0.3847                   | -0.2948                 | 0.7834                  | -0.2406                  | 0.01789                  | -2.65E-09              | -0.02                   |
| 51 | 1       | -0.1775                  | 0.7197                   | 0.7802                  | 0.2084                  | -0.1556                  | -0.07711                 | -0.965                 | 0.205                   |
| 52 | 1       | 0.6175                   | 0.2647                   | 0.0852                  | 0.2634                  | 0.9794                   | -0.09211                 | -0.15                  | 0.4                     |
| 53 | 1       | -0.7566                  | 0.3706                   | -0.2189                 | -0.9406                 | -0.7447                  | -0.4662                  |                        | -0.1341                 |
| 54 | 1       | 0.2831                   | 1.17                     | 0.3708                  | 0.2391                  | -0.445                   | -0.7065                  | 0.6156                 | -1.164                  |
| 55 | 1       | 0.00375                  | -1.949                   | 0.3314                  | 0.4197                  | -0.3744                  |                          | -0.5038                | 0.6162                  |
| 56 | 1       | -1.267                   | -0.3496                  | -0.0791                 | -0.07086                | -0.7049                  | -0.4464                  | -1.204                 | 0.6857                  |
| 57 | 1       | -0.1937                  | 0.1634                   | -0.4861                 | -0.5278                 | -0.2019                  | -0.5634                  | 0.6687                 | 0.1687                  |
| 58 | 1       | 0.0825                   | -0.7003                  | -0.1798                 | 0.8884                  | -0.1256                  | -0.1171                  | 0.195                  | -0.045                  |
| 59 | 1       | -0.2712                  | -0.03406                 | 0.2564                  | -0.1953                 | 0.000625                 | 0.4091                   | -1.119                 | -0.1588                 |
| 60 | 1       | -0.3425                  | -0.5553                  | 0.0852                  | 0.1434                  | -0.02062                 | -0.1921                  | 0.99                   | 0.04                    |
| 61 | 1       | 0.7747                   | -0.2381                  | 0.2024                  | 0.1806                  | -0.3234                  | -0.7149                  | -0.6128                | 0.2072                  |
| 62 | 1       | -0.1125                  | -0.3053                  | 0.0552                  | 0.02344                 | -0.1306                  | -0.7221                  |                        | -0.5                    |
| 63 | 1       | -0.5266                  | -0.02938                 |                         | -0.6206                 | -0.5947                  | -0.8062                  | -0.6441                | 0.05594                 |
| 64 | 1       | -0.18                    | 1.087                    | 0.5577                  | 0.4159                  | 0.04188                  | -0.1896                  | -0.1675                | -0.1375                 |
| 65 | 1       | -0.2425                  | 0.7247                   | 0.3252                  | 0.2634                  | 0.01938                  | -0.1821                  |                        | -0.07                   |
| 66 | 1       | -0.0775                  | 0.7797                   | 0.5602                  | 0.4184                  | -0.1056                  | 0.1129                   | -0.135                 | 0.725                   |
| 67 | 1       | -0.3725                  |                          | -0.1648                 | -0.6366                 | -0.2906                  |                          |                        | 0.36                    |
| 68 | 1       | 0.1125                   | 0.2197                   |                         | 0.6084                  | -0.5156                  | 0.5629                   | -0.445                 | 1.515                   |
| 69 | 1       | 0                        | -0.8428                  | 0.1377                  | 0.3259                  | -0.4181                  | 0.09039                  | -0.1175                | 0.6425                  |
| 70 | 1       | -0.1425                  | -0.6653                  | -0.0148                 | 0.1134                  | -0.4906                  | -0.3021                  | -1.56                  | 0.46                    |
| 71 | 1       | -0.2175                  | -0.7503                  | -0.3498                 | 0.3184                  | 0.07437                  | 0.09289                  | -0.135                 | 0.335                   |
| 72 | 1       | 0.4923                   | 0.3295                   |                         |                         | -0.4158                  | -0.2973                  | -1.065                 | -0.3252                 |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 73  | 1       | 0.6653                   | -0.6475                  | 0.673                   | 0.08125                 | 0.1918                   | -0.5843                  | 0.4578                 | -1.262                  |
| 74  | 1       | 0.0699                   | 1.057                    | -0.0124                 | 0.9958                  | 0.1918                   | 0.5323                   | -0.5876                | 0.3624                  |
| 75  | 1       | 0.2319                   | 0.2691                   | 0.7596                  | -0.2522                 | 0.7637                   | 0.5323                   | 0.6244                 | 0.4744                  |
| 76  | 1       | 0.4328                   | 0.55                     | 1.171                   | -0.06125                | 0.7847                   | -0.006797                | 0.5253                 | 0.4653                  |
| 77  | 1       | 0.5741                   | 0.6512                   | -0.1382                 | 0.25                    | 0.2559                   | 0.4745                   |                        | 0.6566                  |
| 78  | 1       | 0.0075                   | 0.7147                   | 0.3752                  | 1.193                   | -0.5706                  | -0.08211                 |                        |                         |
| 79  | 1       | 0.2097                   | 1.407                    | 0.7174                  | 0.7056                  | -0.3484                  | -0.5499                  | -0.6178                | 0.1222                  |
| 80  | 1       | 0.2502                   | 1.497                    | 0.6679                  | 0.9462                  | -0.1179                  | -0.6694                  |                        | 0.1227                  |
| 81  | 1       | 0.3475                   | -0.5653                  | 0.8452                  | -0.08656                | 0.5994                   | 0.1779                   | 0.48                   | -3.85E-09               |
| 82  | 1       | 0.5075                   | 0.5047                   | 0.5952                  | 0.6534                  | 0.6094                   | 1.008                    | 1.03                   | 1.1                     |
| 83  | 1       | 0.7375                   | 1.195                    | 0.7652                  | 0.7134                  | -0.3406                  | 0.8379                   | 0.91                   | 1.09                    |
| 84  | 1       | 0.2225                   | 1.05                     | 0.6302                  | 0.5784                  | -0.09563                 | 0.2929                   | -0.965                 |                         |
| 85  | 1       | 0.85                     | 0.4872                   | 1.108                   | 0.1259                  | 0.9219                   | 0.4504                   | 1.632                  | 0.8725                  |
| 86  | 1       | 0.7275                   | 0.3647                   | 1.155                   | 0.2834                  | 0.9294                   | 0.9079                   | 0.96                   | 1.23                    |
| 87  | 1       | 0.5925                   | 0.5397                   | 0.3902                  | 0.2184                  | 1.474                    | 1.353                    | 1.075                  | 0.425                   |
| 88  | 1       | -0.09859                 | 0.02859                  | 0.5291                  | -0.2427                 | -0.1067                  | -0.7582                  |                        | 0.3039                  |
| 89  | 1       | 0.1625                   | 0.6897                   | 0.0902                  | 0.3784                  | 0.08438                  | 0.4829                   | 0.025                  | 0.395                   |
| 90  | 1       | -0.1184                  | 0.4987                   | 1.359                   | 0.5475                  | -0.1766                  | -0.538                   |                        | 0.8941                  |
| 91  | 1       | 0.2955                   | -0.3473                  | 0.6832                  | 0.5715                  | 0.1774                   |                          | 1.058                  | 0.668                   |
| 92  | 1       | 0.8068                   | 2.014                    | 1.014                   | 1.643                   | 0.4787                   | 0.7072                   | 1.219                  | 0.4693                  |
| 93  | 1       | 0.07531                  | 0.5125                   | -0.127                  | 0.4513                  | 0.4872                   | 0.3457                   |                        | 0.6378                  |
| 94  | 1       | 0.7566                   | 0.8838                   | 0.5143                  | -0.1574                 | 0.4685                   |                          | 0.7791                 | 0.1291                  |
| 95  | 1       | 0.2375                   | 0.06469                  | 0.2652                  | 0.1234                  | -0.3406                  | -0.2721                  | -0.18                  | 0.49                    |
| 96  | 1       | 0.1675                   | -0.07531                 | 0.1952                  | 0.2834                  | 0.1894                   | 0.5679                   | -0.11                  | -0.08                   |
| 97  | 1       | 0.3875                   | 0.4547                   | 0.5352                  | 0.6134                  | 0.4094                   | 0.4679                   | -0.07                  | 0.19                    |
| 98  | 1       | 0.6069                   | 0.8241                   | 0.5146                  | -0.1272                 | 0.4088                   |                          | 0.7794                 | 0.6494                  |
| 99  | 1       | 0.5269                   | 1.194                    | 0.1446                  | 0.2028                  | -0.4213                  |                          | 0.5594                 | 0.9894                  |
| 100 | 1       | 0.5775                   | 0.5647                   | 0.0952                  | 0.2234                  | 0.1594                   |                          | 0.47                   | 0.51                    |
| 101 | 1       | 0.4797                   | 1.187                    | 0.4874                  | -0.08437                | -0.2084                  | 0.3001                   | 0.2222                 | 0.7622                  |
| 102 | 1       | 0.7386                   | 1.086                    | 0.1963                  | 0.1745                  | 1.27                     | 0.369                    | 0.8611                 | 0.9911                  |
| 103 | 1       | 0.6519                   | 0.5491                   | 0.5296                  | 0.2678                  | 0.9237                   |                          | 1.184                  | 0.8444                  |
| 104 | 1       | 0.6975                   | 1.125                    | 0.3952                  | -0.3866                 | 1.299                    | 1.038                    | 0.89                   | 1.31                    |
| 105 | 1       | 1.005                    | 1.683                    | 0.863                   | 1.241                   | 1.537                    | 1.116                    | 1.198                  | 1.178                   |
| 106 | 1       | -0.02125                 | 0.5959                   | 0.1664                  | 0.3247                  | 0.5306                   | 0.5291                   | 0.3212                 | 1.191                   |
| 107 | 1       | -0.1977                  | -0.2405                  | 1.46E-12                | -0.06176                | 0.5642                   | 0.4727                   | -0.1352                | 0.5848                  |
| 108 | 1       | 0.1747                   | -0.2319                  | 0.08238                 | 0.000625                | 0.8266                   | 0.3151                   | 0.2872                 | 0.2672                  |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 109 | 1       | -0.2975                  | -0.3303                  | -0.1798                 | 0.2584                  | -0.2356                  | -0.3171                  | -1.205                 | -0.645                  |
| 110 | 1       | -0.2598                  | 0.8074                   | -0.6321                 | 0.3861                  | 0.2021                   |                          | -0.8073                | 1.153                   |
| 111 | 1       | -0.1035                  | 0.5537                   | -0.3858                 | 1.152                   | 0.1184                   | 0.6169                   | -0.661                 | 1.129                   |
| 112 | 1       | -0.1502                  | 0.357                    | -0.5125                 | 0.4057                  | 0.4316                   | 0.1402                   | 0.1623                 | -0.3977                 |
| 113 | 1       | -0.57                    | 0.1872                   | 0.0777                  | -0.4641                 | -0.2481                  | -0.3996                  |                        | 0.1225                  |
| 114 | 1       | 0.3075                   | 0.3147                   | 0.1152                  | 0.3034                  | -0.5206                  | 0.05789                  | -1.37                  | 0.03                    |
| 115 | 1       | -0.05375                 | 0.9234                   | 0.5139                  | -0.3878                 | 0.4581                   | 0.1666                   | 0.9987                 | -0.03125                |
| 116 | 1       | -0.2575                  | 0.09969                  | 0.2502                  | -0.5216                 | 0.08438                  | 0.2629                   | 0.765                  | -0.175                  |
| 117 | 1       | -0.004219                | 1.503                    | 0.3835                  | -0.07828                | -0.04234                 | 0.1562                   | 0.6383                 | -0.2017                 |
| 118 | 1       | 0.4347                   | 1.522                    | -0.1776                 | 0.000625                | 0.06656                  | 0.5251                   | 1.127                  | 1.047                   |
| 119 | 1       | 0.555                    | 0.5022                   | 0.5927                  | 0.1809                  | -0.1031                  | -0.01461                 | 0.9675                 | 0.5875                  |
| 120 | 1       | 0.358                    | 0.8552                   | 1.156                   | 0.5139                  | 0.7498                   | 0.3884                   | 0.5505                 | 0.8705                  |
| 121 | 1       | 0.0575                   | -1.035                   | 0.0652                  | -0.2666                 | 0.04937                  | 0.6779                   | -0.1                   | 0.16                    |
| 122 | 1       | 0.2403                   | -0.7925                  | 0.218                   | -0.3937                 | -0.5278                  | 0.0107                   | 0.002812               | 0.1128                  |
| 123 | 1       | -0.01031                 | -0.2831                  | 0.4374                  | -0.05437                | -0.02844                 | 0.2301                   | 0.1222                 | 0.1122                  |
| 124 | 1       | 0.2325                   | 0.03969                  | 0.5102                  |                         | -0.005625                | 0.8929                   | -0.035                 | 0.335                   |
| 125 | 1       | -0.06961                 | 0.9076                   | 0.5181                  | 0.2263                  | -0.6477                  | 0.6408                   |                        | -0.7171                 |
| 126 | 1       | -0.2862                  | -1.069                   | -0.8086                 | 0.07969                 | 0.04562                  | -0.04586                 | -0.4038                | -0.6538                 |
| 127 | 1       | -0.4853                  | -0.2081                  | -0.2876                 | 0.000625                | -0.4834                  | 0.2651                   | -0.7028                | -0.2728                 |
| 128 | 1       | 0.472                    | -0.8908                  | 0.02973                 | 0.538                   | -0.4661                  | -0.1576                  | -0.09547               | 0.4345                  |
| 129 | 1       | -0.8073                  | -0.2802                  | 1.28                    | -0.2114                 | -0.3755                  | -0.197                   | 1.355                  | 0.8852                  |
| 130 | 1       | -0.08375                 | -0.8466                  | 0.04395                 | 0.2222                  | 0.3681                   | 0.2566                   | 0.3288                 |                         |
| 131 | 1       | -0.7575                  | -0.2303                  | -0.0398                 | -0.1416                 | -0.5456                  | -0.09711                 | 0.735                  | 1.595                   |
| 132 | 1       | 1.608                    | 1.855                    | -0.8848                 | -0.5766                 | 0.1494                   | 0.04789                  | -0.26                  | 1.74                    |
| 133 | 1       | 1.248                    | 0.2556                   | -0.1339                 | -0.1556                 | -1.67                    | -1.671                   |                        | 0.1909                  |
| 134 | 1       | 2.06                     | 1.767                    | 0.2275                  | -0.0143                 | -0.2184                  | -0.1898                  | -1.248                 | 0.4323                  |
| 135 | 1       | 1.774                    | 0.6709                   | -0.09855                | -0.01031                | -0.3044                  | -0.2059                  | -0.1137                | -0.3137                 |
| 136 | 1       | 0.4608                   | -0.342                   | -0.8915                 | -0.2333                 | 0.5327                   |                          |                        | 0.4133                  |
| 137 | 1       | 0.1592                   | 0.5664                   | -0.1131                 | 0.7352                  | 0.1911                   | -0.2104                  | -0.1483                | 0.2717                  |
| 138 | 1       | 0.4155                   | -0.9173                  | 0.03324                 | -0.1785                 | 0.4574                   | 0.5859                   | 0.788                  | -0.512                  |
| 139 | 1       | 0                        | 0.05719                  | 0.6677                  | -0.1641                 | 0.7119                   | 0.7804                   | 1.162                  | 0.5925                  |
| 140 | 1       | 0.6225                   | 0.4597                   | 0.2802                  | -0.3616                 | 0.8444                   | -0.3071                  | 0.045                  | 0.255                   |
| 141 | 1       | 0.7198                   | 0.877                    | 0.9975                  | -0.3443                 | 0.7016                   | 0.7902                   | 1.212                  | 1.062                   |
| 142 | 1       | 1.208                    | 1.495                    | 1.335                   | -1.777                  | 0.6694                   | -0.6521                  | 0.7                    | 0.54                    |
| 143 | 1       | 1.275                    | 0.3619                   | 1.212                   | 0.000625                | 1.737                    | 1.725                    | 2.037                  | 2.027                   |
| 144 | 1       | 1.273                    | 0.7497                   | 1.58                    | 0.7984                  | 1.564                    | -0.2371                  |                        | 2.025                   |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 145 | 1       | -0.08469                 | 0.2025                   | -0.137                  | -0.03875                | -0.3828                  | -0.3543                  | 1                      | -0.1222                 |
| 146 | 1       | 0.3247                   | 0.3619                   | 0.3024                  | 1.271                   | -0.3434                  | -0.4949                  | 0.7572                 | 0.1172                  |
| 147 | 1       | 1.354                    | 0.2815                   | 0.712                   | 1.05                    | 1.836                    | 1.385                    | 2.127                  | 1.407                   |
| 148 | 1       | 1.058                    | 1.885                    | 1.245                   | 0.1634                  | 0.3594                   | 1.418                    |                        | 0.98                    |
| 149 | 1       | 0.5175                   | -0.4553                  | 1.135                   | 0.6234                  |                          | 0.9779                   |                        | 2.1                     |
| 150 | 1       | 0.8672                   | 1.544                    | 0.3849                  | -0.1269                 | 1.089                    | 0.1776                   | 0.6597                 | 0.7497                  |
| 151 | 1       | 0.2847                   | 0.3019                   | 0.6924                  | 0.00625                 | 0.7966                   | 0.1651                   | 0.3472                 | 1.047                   |
| 152 | 1       | 0.5125                   | 1.26                     |                         | 0.07844                 | 0.8244                   |                          | 0.165                  | 0.815                   |
| 153 | 1       | 0.5925                   | 0.3797                   | 0.9002                  | 0.008437                | 0.7944                   |                          | 0.635                  | 0.705                   |
| 154 | 1       | 0.9269                   | 0.6841                   | 0.4546                  | 0.1828                  | 0.7887                   | 0.7573                   |                        | 0.8594                  |
| 155 | 1       | 0.5375                   | -0.2953                  | 0.3652                  | 0.4634                  | 0.1594                   | 0.6179                   | 0.68                   | 0.73                    |
| 156 | 1       | 0.3975                   | 0.4647                   | 0.3052                  | 0.4234                  | 0.03938                  | 0.4879                   | 0.72                   | 0.75                    |
| 157 | 1       | 0.8775                   | 1.415                    | 1.385                   | 1.233                   | 1.069                    | 1.858                    | 1.36                   | 1.14                    |
| 158 | 1       | 1.396                    | 1.803                    | 0.9839                  | 0.7122                  | 1.278                    |                          | 1.439                  | 1.279                   |
| 159 | 1       | 0.1525                   | 0.8797                   | 0.8402                  | 0.6884                  | 0.1944                   | 0.3329                   | 0.985                  | 1.285                   |
| 160 | 1       | 0.3661                   | -0.00668                 | 0.7338                  | 0.7521                  | -0.442                   | 0.6365                   | -0.1814                | 1.029                   |
| 161 | 1       | 0.8672                   | 0.6344                   | 1.145                   | -0.3469                 | -0.4309                  | 0.4176                   | 1.42                   | 1.21                    |
| 162 | 1       | 0.1114                   | 0.6886                   | 0.8491                  | 0.02734                 | 0.8433                   | 0.1718                   |                        | 1.124                   |
| 163 | 1       | 0.2375                   | 0.6547                   | 0.2852                  | -0.1766                 | 0.5894                   | 1.138                    | 0.56                   | 0.53                    |
| 164 | 1       | 0.3433                   | 0.5705                   | -0.399                  | 0.6692                  | 0.3152                   | 1.134                    | 0.005781               | 0.4958                  |
| 165 | 1       | 0.4569                   | -0.7159                  | 1.135                   |                         | 1.389                    | -0.6027                  | 1.929                  | 0.3094                  |
| 166 | 1       | 0.9075                   | 1.025                    | 0.7052                  | 1.013                   | 0.8294                   | 0.7679                   | 0.42                   | 0.3                     |
| 167 | 1       | 0.0875                   | 0.6647                   | 1.065                   | 0.2934                  | 0.2894                   | 0.2679                   | 0.02                   | 0.83                    |
| 168 | 1       | 0.6375                   | 0.6747                   |                         | 0.5034                  | 1.549                    | 1.818                    | 1.01                   | 0.85                    |
| 169 | 1       | 0.3454                   |                          | 1.143                   | -1.419                  | -1.053                   | 0.4058                   |                        | 1.058                   |
| 170 | 1       | 0.5954                   | -0.1274                  | 0.6931                  | 0.08133                 | 0.4873                   | 0.06578                  | 1.678                  | 0.4979                  |
| 171 | 1       | 0.5475                   | -0.6153                  | 1.265                   | -0.1266                 | 1.339                    | 1.088                    |                        | 1.16                    |
| 172 | 1       | 1.252                    | 0.5297                   | 2.98                    | 0.7084                  | 2.034                    | 0.3629                   | 0.335                  | 1.485                   |
| 173 | 1       | 2.076                    | 0.06297                  | 1.983                   | 0.05172                 | 1.888                    | 2.366                    |                        | 2.478                   |
| 174 | 1       | 0.4973                   | -1.185                   | 0.415                   | 0.5333                  | 0.8692                   |                          | 0.5798                 | 0.4198                  |
| 175 | 1       | 0.08449                  | 0.4917                   | 0.9722                  | -0.4296                 | 0.5264                   | 0.2749                   |                        | 0.327                   |
| 176 | 1       | 0.2699                   | 0.2071                   |                         | 0.1759                  | 0.5018                   | 0.8803                   | -0.3576                | 0.1324                  |
| 177 | 1       | 0.2689                   | -0.1039                  | 0.9966                  | -0.02516                | 0.4008                   | 0.009297                 | -0.008594              | 1.091                   |
| 178 | 1       | 0.0775                   | 0.4847                   | 1.605                   | -0.5266                 | 0.8494                   | -0.3721                  |                        | 1.88                    |
| 179 | 1       | 0.361                    | 0.9982                   | -0.00127                | -0.01303                | 0.4829                   | 0.6014                   | 0.01354                | 0.3735                  |
| 180 | 1       | 0.7575                   | 0.7647                   | 0.1452                  | -0.1066                 | -0.1006                  | 0.4279                   | 0.58                   | 0.06                    |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 181 | 1       | 0.5859                   | 0.993                    | 0.1936                  | 0.0818                  | 0.2277                   | 1                        | 0.4284                 | -0.2016                 |
| 182 | 1       | 0.6875                   | 1.455                    | 1.115                   | -0.02656                | 0.1394                   | 0.5579                   | 1.83                   | 1.04                    |
| 183 | 1       | 1.375                    | 1.802                    | 0.9229                  | -0.3688                 | 0.2871                   | 0.1734                   | 1.768                  | 1.438                   |
| 184 | 1       | -0.157                   | 1.12                     | 0.6707                  | 0.1389                  | 0.1248                   | 0.293                    | 0.3255                 | 0.8755                  |
| 185 | 1       | 0.7027                   | 1.61                     | 1.59                    | 0.07859                 | 0.3645                   | 0.007891                 | 0.93                   | 1.295                   |
| 186 | 1       | 0.5175                   | 1.535                    | 0.5752                  | -0.006562               | -0.01063                 | 0.7975                   | 1.217                  | 0.89                    |
| 187 | 1       | 0.185                    | 1.142                    | 0.9527                  | 0.1609                  | 0.2869                   | 0.4418                   | 1.244                  | 1.154                   |
| 188 | 1       | 0.4614                   | 1.709                    | 0.2073                  | 0.1214                  | -0.1067                  | -0.08414                 | 0.488                  | 0.878                   |
| 189 | 1       | 0.3955                   | 0.8927                   | 0.5132                  | -0.04656                | -0.1206                  | 0.1279                   | 0.9                    | 0.88                    |
| 190 | 1       | 0.5175                   | 0.6747                   | 0.6452                  | 0.1681                  | 1.174                    | 0.7125                   | 1.235                  | 0.7246                  |
| 191 | 1       | 0.4421                   | 1.219                    | 0.5998                  | 0.9094                  | 1.055                    | 0.7238                   | 0.4659                 | 0.8559                  |
| 192 | 1       | 0.6134                   | 0.7206                   | -0.08887                | 1.648                   | 0.8439                   | 1.522                    | 0.5345                 | 1.405                   |
| 193 | 1       | 0.232                    | 0.8392                   | 1.3                     | -0.03094                | 0.595                    | 0.7335                   | -0.6444                | 1.016                   |
| 194 | 1       | -0.1069                  | 0.5003                   | 0.8108                  | 0.1414                  | 0.7573                   | 0.07793                  | 0.07793                | 0.9979                  |
| 195 | 1       | -0.1846                  | 0.2126                   | 0.7231                  | 0.2839                  | 0.7598                   | 0.9283                   | 0.4104                 | 0.4504                  |
| 196 | 1       | 0.2579                   | -0.06486                 | 0.02564                 | 0.001797                | 1.004                    | 0.6427                   | 0.05477                | 1.115                   |
| 197 | 1       | 0.1623                   | 0.7295                   | 0.27                    | -0.01734                | 1.069                    | 0.7679                   | 0.53                   | 1.32                    |
| 198 | 1       | -0.0225                  | -0.6953                  | 0.2852                  | 0.3234                  | 0.3952                   | -0.02629                 | -0.09418               | -0.00418                |
| 199 | 1       | 0.08332                  | 0.7105                   | 0.001016                | 0.1993                  | -0.1056                  | -0.07711                 | 0.585                  | 0.005                   |
| 200 | 1       | -0.0075                  | 0.3897                   | 0.2502                  | -0.3216                 | 0.3495                   | 0.4002                   | 0.4002                 | -0.2898                 |
| 201 | 1       | -0.002344                | -0.2752                  | -0.4046                 | -0.2564                 | 0.2205                   | 0.359                    | 0.5211                 | 0.1211                  |
| 202 | 1       | -0.09141                 | -0.01422                 | -0.3937                 | 0.4845                  | -0.01062                 | -0.4521                  | 0.09                   | 0.27                    |
| 203 | 1       | -0.3525                  | -0.1753                  | 0.4052                  | 0.5634                  | 0.1566                   | 0.1251                   | 1.167                  | 0.5472                  |
| 204 | 1       | 0.4147                   | 0.6919                   | 0.6924                  | 0.000625                | 1.226                    | 0.9944                   | 1.034                  | 0.607                   |
| 205 | 1       | 0.1345                   | 0.3616                   | 0.9821                  | 1.17                    | 0.9637                   | 0.9428                   | 0.7925                 | -0.2175                 |
| 206 | 1       | 0.3819                   | 0.4491                   | 0.2496                  | 0.2978                  | 0.8541                   | 1.205                    | 1.445                  | 1.445                   |
| 207 | 1       | -0.4397                  | 0.9275                   | 0.278                   | 0.3162                  | 0.5894                   | 1.278                    | 0.99                   | 1.22                    |
| 208 | 1       | 0                        | -0.1428                  | 0.3377                  | -0.4341                 | 0.5519                   | 0.0007031                | 0.9428                 | 0.5028                  |
| 209 | 1       | 0.7122                   | 0.4694                   | 0.8599                  | 1.598                   | 0.8541                   | 0.02039                  | 0.7925                 | -0.2175                 |
| 210 | 1       | 0.6375                   | -0.3353                  | 0.7352                  | 0.5234                  | 0.5894                   | 1.278                    | 1.205                  | 1.445                   |
| 211 | 1       | 0.3008                   | 0.508                    | 0.7085                  | -0.01328                | 0.7527                   | 1.621                    | 0.99                   | 1.22                    |
| 212 | 1       | 0.1031                   | 1.06                     | 0.6308                  | 0.7991                  | -0.155                   | 0.5352                   | 1.043                  | 0.8133                  |
| 213 | 1       | -0.0875                  | -0.4603                  | 0.4902                  | -0.2016                 | 0.9644                   | 0.7129                   | -0.1744                | 0.7156                  |
| 214 | 1       | -0.6145                  | 0.3727                   | 0.7732                  | 0.07734                 | 0.9644                   | 0.925                    | 0.925                  | 1.475                   |
| 215 | 1       | 1.94                     | 1.418                    | -0.01191                | -0.4837                 | 0.07734                  | -0.7941                  | 0.9229                 | -0.002031               |
| 216 | 1       | 0.8425                   | 0.04969                  | 1.02                    | -0.2316                 | 0.9023                   | 1.211                    | 1.135                  | 0.9529                  |
|     |         |                          |                          |                         |                         | 1.654                    |                          |                        | 1.785                   |



Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 217 | 1       | 0.8536                   | 1.211                    | -0.6887                 | -0.7505                 | 1                        | -0.976                   | 1                      | -0.4361                 |
| 218 | 1       | -0.1937                  | 0.5434                   | 0.9539                  | -0.6278                 | 1.388                    | 0.8766                   | -0.1313                | 0.3287                  |
| 219 | 1       | -0.2725                  | 0.2447                   | 0.2052                  | 0.5834                  | 0.07938                  | 1.028                    |                        | -0.18                   |
| 220 | 1       | -0.2225                  | -0.7253                  | 0.6452                  | -1.377                  | 0.1494                   | 0.09789                  |                        | 0.32                    |
| 221 | 1       | -0.00875                 | 0.02844                  | 1.549                   | 0.5734                  | 0.3231                   | -0.2384                  |                        | 1.024                   |
| 222 | 1       | 0.2875                   | 0.7447                   | 1.295                   | 0.5734                  | -0.3206                  | 0.7079                   | -0.22                  | 0.41                    |
| 223 | 1       | 0                        | -0.2728                  | 0.6977                  | -0.1041                 | -0.4181                  | 0.4504                   | -0.5775                | -0.3275                 |
| 224 | 1       | 0.5258                   | -0.217                   | 0.1835                  | 0.9617                  | -0.5423                  | 0.4062                   | 0.7383                 | 0.1383                  |
| 225 | 1       | -0.1684                  | 0.1887                   | 0.7193                  | 0.4675                  | 0.4234                   | -0.398                   |                        |                         |
| 226 | 1       | -0.1075                  | -0.2203                  |                         | 0.1384                  | -0.5356                  | -0.3571                  | -0.045                 | 0.095                   |
| 227 | 1       | -0.2175                  | -0.4203                  | 0.4502                  |                         | -0.1456                  | -0.3271                  | 0.905                  | 0.005                   |
| 228 | 1       | 0.3975                   | 0.6847                   | 0.5452                  | -0.5266                 | -0.6906                  | -0.7521                  | -0.06                  | -0.38                   |
| 229 | 1       | 0.6275                   | -0.2953                  | 0.4252                  | -0.3366                 | -0.2406                  | -0.4921                  | 1.52                   | -3.85E-09               |
| 230 | 1       | 0.7578                   | -0.295                   | 0.1055                  | -0.04625                | 0.2097                   | -0.1018                  | 0.2703                 | -0.3197                 |
| 231 | 1       | 0.4434                   | 0.6305                   | 0.2411                  | 0.6993                  | 0.2852                   | -0.00625                 | 0.05586                | -0.01414                |
| 232 | 1       | 0.4125                   | 0.06969                  | 0.0802                  | 0.02844                 | -0.5556                  | 0.5829                   | 0.325                  | 0.545                   |
| 233 | 1       | 0.3106                   | 0.7478                   | -0.3817                 | 0.3566                  | -0.1675                  | 0.551                    |                        | 0.07312                 |
| 234 | 1       | -0.5625                  | -0.6053                  | -0.1148                 | -0.8766                 |                          | -0.03211                 | -0.82                  | -0.5                    |
| 235 | 1       | -0.7555                  | -1.208                   | -0.8379                 | -1.6                    | -0.3337                  | -0.04516                 | -1.403                 | -0.323                  |
| 236 | 1       | 0.9569                   | -0.3459                  | -0.4154                 | -0.8372                 | -0.2413                  | 0.1373                   |                        | 0.8694                  |
| 237 | 1       | 0.4231                   | 1.11                     | -0.4792                 | 0.2591                  | 0.025                    | -0.02648                 | 0.7456                 | -0.2344                 |
| 238 | 1       | -0.2247                  | 0.1525                   |                         | -0.2187                 | 1.317                    | -0.2743                  | -0.06219               | 0.1778                  |
| 239 | 1       | -0.3778                  | -0.2406                  | 0.2699                  | 1.088                   | 0.1741                   | 0.6726                   |                        | -0.1153                 |
| 240 | 1       | -1.011                   | -1.054                   | -0.2736                 | -1.425                  | 0.000625                 | -0.1491                  | -0.2288                | 0.2212                  |
| 241 | 1       | -0.8163                  | -0.7091                  | -0.3186                 | -0.3904                 | -0.04445                 | 0.08406                  | 0.1662                 | -0.1738                 |
| 242 | 1       | -0.0525                  | 0.2447                   | -0.0948                 | -0.03656                | -0.05062                 | 0.06789                  | -0.24                  | 0.45                    |
| 243 | 1       | 0.02875                  | -0.4441                  | -0.1336                 | -0.3453                 | -0.1594                  | -0.5209                  | -0.08875               | 0.3312                  |
| 244 | 1       | 0.608                    | 1.115                    | -0.06426                | 0.204                   | -0.5301                  | 0.3184                   | -0.9895                | -0.01945                |
| 245 | 1       | 1.185                    | 1.262                    | 0.0527                  | 0.1409                  | -0.2531                  | 0.3954                   | -0.6625                | -0.3625                 |
| 246 | 1       | 0.682                    | 0.4492                   | 0.9197                  | 0.858                   | 0.3239                   | -0.1376                  | 0.2245                 | 0.3345                  |
| 247 | 1       | 0.1093                   | -0.2535                  | -0.003027               | -0.7648                 | -0.01885                 | 0.04967                  | -0.2982                | -0.06822                |
| 248 | 1       | 0.2316                   | -1.511                   | -0.3607                 | -1.552                  | 0.2635                   | 0.702                    | 0.8241                 | 0.06414                 |
| 249 | 1       | 0.1425                   | -0.6703                  | 0.3102                  |                         | -0.4856                  | 0.3629                   | 1.375                  | -0.005                  |
| 250 | 1       | 0.8245                   | -0.8184                  | 2.562                   | 0.8704                  | 2.326                    | 2.685                    |                        | 0.917                   |
| 251 | 1       | -1.564                   | -0.967                   | -0.3465                 | -0.6383                 | -1.042                   | -0.8038                  | 1.758                  | -0.05172                |
| 252 | 1       | -1.267                   | -1.47                    | -0.0298                 | -0.5716                 | -0.8556                  | -0.08711                 | 1.345                  | 0.725                   |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 253 | 1       | 0.6075                   | 1.125                    | 0.3252                  | 1                       | 0.07937                  | -0.4221                  | 1                      | 0.08                    |
| 254 | 1       | 0.03242                  | 0.6796                   | 0.2501                  | 0.5584                  | 0.3243                   | -0.4272                  | -0.1951                | -0.2751                 |
| 255 | 1       | -0.6003                  | 0.3869                   | 0.6974                  | 1.486                   | -0.3084                  | -0.8299                  |                        | 0.4322                  |
| 256 | 1       | -0.06891                 | -1.382                   | 0.2188                  | -0.423                  | -0.07703                 | 0.7815                   | 0.1436                 | 1.124                   |
| 257 | 1       | -0.005703                | -1.859                   | -0.368                  |                         | 0.1262                   | 0.4747                   | -0.9832                | 0.9368                  |
| 258 | 1       | 0.1658                   | -0.327                   | 0.5635                  | -0.4983                 |                          | -1.034                   |                        | 0.9783                  |
| 259 | 1       | 2.227                    | 1.534                    | -1.525                  | -0.3172                 | 3.019                    |                          | 0.9994                 | -0.2306                 |
| 260 | 1       | 1.726                    |                          |                         |                         | 2.618                    | 0.1866                   |                        | -0.03125                |
| 261 | 1       | 0.81                     | 0.8072                   | 0.2577                  | 0.2859                  | -0.2181                  | -0.9496                  | 0.4925                 | -0.3775                 |
| 262 | 1       | -0.3786                  | 1.129                    | 0.6091                  | 0.9373                  | 2.953                    | 1.522                    |                        | -0.3161                 |
| 263 | 1       | 0.3336                   | 1.361                    | 0.2113                  | 0.7995                  | 0.3155                   |                          | 0.2361                 | -0.2739                 |
| 264 | 1       | -0.0175                  | 0.2797                   | 0.4802                  | 0.5684                  | -0.4856                  | -0.7271                  |                        | -0.555                  |
| 265 | 1       | 0.7358                   | 1.083                    | 0.5335                  | -0.2583                 | -1.372                   | -1.314                   | -0.3817                | -0.7817                 |
| 266 | 1       | -0.5597                  | 0.4975                   | 0.278                   | 0.3162                  | 0.5422                   | 0.0007031                | -0.7972                | 0.2428                  |
| 267 | 1       | -0.3451                  | 0.2521                   | 0.002598                | 0.6308                  | -0.1732                  | 0.1753                   | -0.4426                | -0.4226                 |
| 268 | 1       | -0.2964                  | -0.2693                  | 0.4013                  | 0.4195                  | -0.7946                  | -0.006055                |                        | -1.314                  |
| 269 | 1       | 0.8297                   | -0.4431                  | 1.487                   | 0.5156                  | 1.752                    | 1.54                     | 0.1522                 | -0.03781                |
| 270 | 1       | 0.3111                   | -0.1917                  | -0.4212                 | 0.02703                 | -0.137                   | 0.04148                  | -0.2564                | -0.08641                |
| 271 | 1       | 0.05375                  | -0.8091                  | 0.3414                  | -0.4203                 | 0.3256                   | 0.5041                   | -0.4637                | -0.08375                |
| 272 | 1       | -0.2625                  | -1.025                   | 0.1952                  | -0.2566                 | 0.3494                   | -0.1079                  | 0.9                    | 0.39                    |
| 273 | 1       | -0.1966                  | 0.4305                   | 0.7711                  | -0.1907                 | 0.03523                  | 0.2138                   |                        | -0.01414                |
| 274 | 1       | 0.9166                   | 1.394                    | -0.6257                 | -0.06742                | 0.3385                   | -0.06297                 | -0.9809                | -0.2309                 |
| 275 | 1       | 0.1875                   | 0.2747                   | -0.1948                 | -0.6366                 | -0.02063                 | -0.1521                  | 0.75                   | 0.12                    |
| 276 | 1       | 0.2596                   | -0.01316                 | -0.2927                 | -0.9444                 | 0.7215                   | 0.18                     | -0.2079                | -0.09785                |
| 277 | 1       | -1.022                   | -0.2053                  | 0.5552                  | 0.5734                  | 0.09937                  | 1.598                    | 0.35                   | -0.55                   |
| 278 | 1       | -0.03312                 | 0.8641                   |                         | -0.7372                 | 0.2688                   | 1.427                    | 0.5094                 | 0.2594                  |
| 279 | 1       | -0.1547                  | -0.4475                  | 0.483                   |                         | 0.3372                   | 0.8057                   | -0.002188              | -0.5122                 |
| 280 | 1       | 0.0275                   | 0.5747                   | -0.0548                 | 0.7734                  | -0.1306                  | 0.2979                   | 1.61                   | 0.1                     |
| 281 | 1       | -0.3425                  | 0.1547                   | 1.005                   | 0.6134                  | -0.8906                  | 0.4379                   |                        | -0.02                   |
| 282 | 1       | 0.2853                   | 0.6025                   | 0.653                   | -0.3687                 | 0.2072                   | -0.0743                  |                        | 0.07781                 |
| 283 | 1       | 0.01219                  | 0.2994                   | -0.5201                 | -0.7619                 | -0.8459                  | -1.167                   | 0.01469                | -0.5253                 |
| 284 | 1       | -0.1225                  | 0.8647                   | 0.2752                  | 1.463                   | -0.7506                  | 0.1879                   |                        | 0.27                    |
| 285 | 1       | 0.1947                   | 0.3419                   | 1.332                   | 0.000625                | -0.3934                  | -0.5549                  | -0.3328                | 0.2872                  |
| 286 | 1       | 1.92                     | 1.287                    | 0.7677                  | 0.3159                  | -0.03812                 | -0.2296                  |                        | -0.7675                 |
| 287 | 1       | 2.023                    | 0.1102                   | 1.471                   | 0.2089                  | 0.03488                  | -0.8066                  | -1.014                 | 0.03551                 |
| 288 | 1       | -0.1231                  | 0.9341                   | -0.4354                 | -0.5672                 | 0.3087                   | 0.1373                   | 0.3894                 | -0.2706                 |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 289 | 1       | 0.6013                   | 0.3284                   | 0.7489                  | -0.2728                 | 1.113                    | -1.368                   | -1.096                 | -0.5362                 |
| 290 | 1       | 0.933                    | -0.1798                  | 0.02072                 | -0.161                  | -2.275                   |                          |                        | -3.524                  |
| 291 | 1       | 0.8234                   | 1.171                    | -0.3589                 | 0.0993                  | -1.025                   | -0.6762                  | -1.434                 | 0.4259                  |
| 292 | 1       | -0.2225                  | 1.315                    | 0.2352                  | -0.1466                 | -0.02063                 | -0.7321                  | -0.49                  | 0.29                    |
| 293 | 1       | -0.1339                  | 0.5633                   | -0.07621                | 0.002031                | -0.442                   | -0.7535                  | -0.5914                | 0.6686                  |
| 294 | 1       | -0.1825                  | -0.04531                 | 0.2852                  | -0.02656                | -0.3506                  | -1.352                   | -0.6                   | -0.38                   |
| 295 | 1       | -0.2325                  | 0.7847                   | 0.0352                  | -0.5766                 | -0.4006                  |                          | 0.27                   | -0.75                   |
| 296 | 1       | -0.7077                  | 0.5895                   | -1.46E-12               | -0.4618                 | -0.5658                  | -0.6473                  | 0.3848                 | -0.6652                 |
| 297 | 1       | 0.1292                   | -0.4236                  | -0.4431                 |                         | -0.02891                 | 0.2396                   | 0.4417                 | -0.3083                 |
| 298 | 1       | -0.3725                  | 0.2647                   | -0.0948                 | 0.2234                  | -0.6506                  | -0.8621                  | -0.22                  | -0.16                   |
| 299 | 1       | -0.1047                  | 1.312                    | -0.597                  | 0.3112                  | -0.8628                  | 0.0357                   |                        | -0.6222                 |
| 300 | 1       | 0                        | 0.8172                   | 0.8277                  | 0.3059                  | -0.3281                  | 0.6904                   |                        | -0.0575                 |
| 301 | 1       | 0.6175                   | 1.275                    | 0.4152                  | 0.04344                 | 0.6794                   | -0.1121                  |                        | 0.71                    |
| 302 | 1       | 0.2895                   | -0.5234                  | -0.2429                 | -0.2246                 | 0.1213                   | -0.4402                  | 0.252                  | -0.468                  |
| 303 | 1       | 0.78                     | -0.002813                | 0.8877                  | -0.1941                 |                          | -0.5696                  |                        | -0.4975                 |
| 304 | 1       | 1.313                    | 1.811                    |                         | 0.9493                  | -0.3348                  | -0.3163                  | -0.3342                | 0.4658                  |
| 305 | 1       | 1.278                    | 1.805                    | 0.1852                  | 0.9834                  | -0.2306                  | -0.4121                  | -0.22                  | -0.01                   |
| 306 | 1       | -0.09812                 | -0.3909                  | 0.1796                  | 0.3378                  | -0.4363                  | 0.1723                   | 0.1544                 | 0.2244                  |
| 307 | 1       | 0.1875                   | -0.5253                  | 0.0952                  | -0.3466                 | 0.7694                   | 1.108                    | 0.07                   | 0.71                    |
| 308 | 1       | -0.01516                 | -0.178                   | 1.333                   | 0.2008                  | -0.4133                  | 0.2552                   | -1.443                 | -0.3527                 |
| 309 | 1       | -0.935                   | -0.04781                 | 0.3127                  | -0.1691                 | -0.1631                  | 0.02539                  | 0.4575                 | 0.0075                  |
| 310 | 1       | -0.1079                  | 0.3993                   | -0.3102                 | -0.8919                 | -0.226                   | -1.077                   | -0.2154                | -1.105                  |
| 311 | 1       | -0.1322                  | -0.385                   | -0.2745                 | -1.056                  | -0.04031                 | -1.822                   | -0.04969               | -0.5997                 |
| 312 | 1       | -0.3525                  | -0.1253                  | -0.6048                 | -0.8766                 | -0.07063                 | -0.9321                  | -0.02                  | -0.12                   |
| 313 | 1       | -0.1881                  | 0.2591                   | -0.3104                 | -1.212                  | 0.1737                   | -0.7877                  | -0.6756                | -1.056                  |
| 314 | 1       | -0.006406                | -0.06922                 | -0.7687                 | -0.9005                 |                          | -0.896                   | -0.02391               | -0.7739                 |
| 315 | 1       | -0.09215                 | -0.07496                 | -1.014                  | -0.8962                 | -0.07027                 | -0.9818                  | -0.02965               | -0.6896                 |
| 316 | 1       | 0.1275                   | -0.1353                  | -0.6348                 |                         | -1.061                   | -0.9821                  |                        | -0.11                   |
| 317 | 1       | -0.42                    | -0.01281                 | 0.0377                  | 0.2759                  | -0.4281                  |                          |                        | 0.0125                  |
| 318 | 1       | -0.6725                  |                          |                         | -0.9166                 | -0.1006                  | -0.4621                  |                        | 0.04                    |
| 319 | 1       | 1.272                    | 1.31                     | -0.2798                 | 0.4984                  | 0.3644                   | 0.3629                   | 0.225                  | 0.515                   |
| 320 | 1       | 1.045                    | -0.418                   | -0.2375                 | 0.9308                  | 1.467                    | 1.315                    | 1.147                  | 1.037                   |
| 321 | 1       | 0.4347                   | 0.3419                   | 0.7524                  | 0.00625                 | 0.2766                   | -0.4549                  | 0.1472                 | -0.2428                 |
| 322 | 1       | 0.2925                   | 0.6897                   | 0.1302                  | 0.7284                  | 0.07438                  | 0.2829                   | -0.285                 | 0.825                   |
| 323 | 1       | -0.07672                 | -0.05953                 | -0.03902                | 0.05922                 | 0.01516                  | -0.1063                  | -0.4342                | 0.9058                  |
| 324 | 1       | 0.2975                   | 0.05469                  | -0.9648                 | 1.043                   | 0.01937                  |                          | 0.17                   | -0.92                   |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 325 | 1       | 0.4225                   | 0.5197                   | -0.2698                 | 0.8284                  | 0.004375                 | -0.1971                  | 0.075                  | -0.685                  |
| 326 | 1       | 0.08609                  | -0.7467                  | -0.07621                | 0.01203                 | -0.412                   | -0.5135                  |                        | -0.1814                 |
| 327 | 1       | 0.5697                   | 1.187                    | 0.2174                  | -0.03437                | -0.3384                  | 0.2201                   | -0.3678                | -0.2578                 |
| 328 | 1       | 0.6897                   | 0.6769                   | -0.3826                 | -0.5244                 | -0.5884                  |                          | -1.228                 |                         |
| 329 | 1       | 0.7675                   | 1.135                    | -0.5048                 | 0.2234                  | -0.3806                  |                          | -1.04                  | -3.85E-09               |
| 330 | 1       | 0.6997                   | 0.4969                   | -0.2826                 | -0.2344                 | -0.4984                  | -0.2699                  | -1.198                 | -0.03781                |
| 331 | 1       | -0.2925                  | 0.1347                   | 0.9652                  | 0.4334                  | -0.1806                  | 0.8779                   |                        | 0.01                    |
| 332 | 1       | 0.54                     | 0.4672                   | -0.6223                 | 0.1559                  | 0.1419                   | -0.5996                  | -0.4575                | 0.4825                  |
| 333 | 1       | 0.9325                   | 0.8597                   | 0.1602                  | 0.3384                  | 0.4044                   | 0.3229                   | 0.275                  | -0.015                  |
| 334 | 1       | 0.2475                   | -0.3853                  | 0.7652                  | 0.4334                  | 0.7194                   | 0.8579                   | 1.59                   | 0.58                    |
| 335 | 1       | 0.1836                   | 0.02078                  | 1.611                   | 0.1495                  | -0.08453                 | -0.356                   | -0.2339                | -0.3739                 |
| 336 | 1       | 1.673                    | 0.4699                   | 0.02045                 | -0.9013                 | 0.4546                   | 1.183                    | 0.6253                 | 0.8553                  |
| 337 | 1       | 0.105                    | 0.7322                   | 0.2827                  | 0.7409                  | 0.1869                   | 0.1954                   | 0.6075                 | 0.6975                  |
| 338 | 1       | 0.4232                   | 0.9204                   | -0.4891                 | -0.3209                 | -0.2449                  | -0.3664                  | 0.0657                 | -0.4043                 |
| 339 | 1       | 0.3775                   | 0.4247                   | 0.3652                  | 0.7134                  | 0.4094                   | 0.8179                   | 0.88                   | 1.09                    |
| 340 | 1       | -0.0325                  | -0.04531                 | 0.005195                | -0.05656                | 0.6494                   | 0.8079                   | 0.28                   | 0.08                    |
| 341 | 1       | -0.0275                  | -0.5203                  | 0.0902                  | -0.07156                | -0.2156                  | 0.3929                   | -0.055                 | 0.165                   |
| 342 | 1       | -0.06109                 | 0.3361                   | 0.8466                  | 0.1148                  | 0.3908                   | -0.0107                  | 0.1314                 | 0.7414                  |
| 343 | 1       | 0.663                    | 0.02023                  | 0.1307                  | -0.871                  | 0.2849                   | 0.08344                  | -0.05445               | 0.3855                  |
| 344 | 1       | 0.7475                   | 0.6547                   | 0.2452                  | -0.5766                 | 0.2094                   | -0.1321                  | -0.22                  | 0.33                    |
| 345 | 1       | 1.095                    | 0.2119                   | -0.08762                | 0.000625                | 0.5766                   |                          | -0.3228                |                         |
| 346 | 1       | 0.7875                   | 0.8547                   | 0.1952                  | 0.1734                  | 0.03937                  | 0.1279                   | -1.08                  | 0.98                    |
| 347 | 1       | 1.348                    | 1.385                    | 0.3352                  | -0.7266                 | 0.5294                   | 0.7779                   | 0.11                   | 0.67                    |
| 348 | 1       | -0.2747                  | 0.1925                   | -0.367                  | -0.3488                 | -0.2528                  | 0.0857                   |                        | 0.4878                  |
| 349 | 1       | 0.065                    | 0.002188                 | 0.3827                  | -0.05906                | -0.1231                  | 0.3354                   |                        | 0.5975                  |
| 350 | 1       | -0.2525                  | 0.7747                   | 0.2952                  |                         | -0.3406                  | 0.08789                  | -0.61                  | 0.31                    |
| 351 | 1       | -0.09672                 | 0.4205                   | 0.171                   | 0.8692                  | -0.2948                  | -0.1163                  | -0.1942                | 0.6258                  |
| 352 | 1       | 0.581                    |                          | -0.02131                |                         | 0.3629                   |                          | 0.2435                 | 0.5135                  |
| 353 | 1       | -0.1225                  | 0.004687                 | 0.7252                  | 0.7034                  | -0.7406                  | -0.8021                  | 0.87                   | -0.31                   |
| 354 | 1       | 0.5825                   | 0.9197                   | -0.2198                 | 0.09844                 | 0.7944                   | 0.6129                   | -0.145                 | 2.005                   |
| 355 | 1       | 0.36                     | 0.02719                  | -0.6823                 | -0.2641                 | 0.3119                   | 0.04039                  | -0.8775                | 0.4525                  |
| 356 | 1       | -0.9245                  | -0.01734                 | -0.7868                 | 0.5414                  | -0.7727                  | -0.2741                  | -1.802                 | 0.138                   |
| 357 | 1       | -0.6453                  | 0.1419                   | -0.03762                |                         | -0.8934                  | -1.005                   |                        | 0.1072                  |
| 358 | 1       | 0.2898                   | -0.08305                 | -0.9025                 | -0.6543                 | -1.638                   | -1.52                    | -0.6677                | -0.5477                 |
| 359 | 1       | 0.08391                  | -1.349                   | -0.9284                 | -0.07016                | -1.244                   |                          | -0.5536                | -0.1736                 |
| 360 | 1       | -0.01859                 | 1.029                    | 0.8291                  | 0.6273                  | -0.3367                  | 0.9718                   |                        | 0.3539                  |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 361 | 1       | -0.1975                  | -0.1603                  | 0.6402                  | 0.2184                  | -0.8656                  | 0.1629                   | -0.315                 | -0.365                  |
| 362 | 1       | 0.2336                   | -0.4792                  | 0.2713                  | 0.1295                  | 0.2755                   | -0.476                   | -0.1839                | 0.4661                  |
| 363 | 1       | 0.4                      | -0.6028                  | 0.1177                  | 0.09594                 | 0.09188                  | 0.3704                   | -0.1175                | 0.4125                  |
| 364 | 1       | 0                        | 0.9872                   | 0.3677                  | 0.3359                  | -0.2581                  | 0.1904                   |                        | -0.2475                 |
| 365 | 1       | -0.4225                  | 0.06469                  | 0.2052                  | 0.2534                  | -0.1306                  | 0.09789                  | -0.56                  | 0.65                    |
| 366 | 1       | 0.06781                  | 0.795                    | 0.4255                  | -0.1263                 | 0.2697                   | 0.6582                   | -0.009688              | 0.02031                 |
| 367 | 1       | 1.188                    | 0.7447                   | -0.0448                 | -0.1166                 | -0.02063                 | 0.7879                   | 0.31                   | -2.20E-08               |
| 368 | 1       |                          | -0.6468                  | -0.6163                 | -0.678                  | -0.02211                 | -0.1236                  | 0.3785                 | -0.1515                 |
| 369 | 1       | -0.3425                  | 0.1847                   | 0.5552                  | 0.9934                  | -0.6306                  | -0.4521                  |                        | -0.54                   |
| 370 | 1       | -0.000625                | -1.303                   |                         | 1.475                   | 0.00125                  |                          | 0.6019                 | -0.1781                 |
| 371 | 1       | 0.0475                   | 0.4747                   | -0.0448                 | 0.2534                  | -0.01063                 | -0.1221                  | -0.28                  | -0.53                   |
| 372 | 1       | 0.2434                   | -0.4594                  | -0.04887                | -0.1806                 | -0.5547                  | -0.1762                  | -1.104                 | -0.1341                 |
| 373 | 1       | -0.3225                  | 0.3347                   | -0.6248                 | 0.2534                  | -0.3506                  | -0.1221                  | -0.1                   | -0.08                   |
| 374 | 1       | 0.08891                  | 0.4561                   | -0.2634                 | 0.3148                  | -0.1492                  | -0.0007031               | 0.4314                 | 0.001406                |
| 375 | 1       | -0.4803                  | 0.6169                   | 0.3174                  | -0.3344                 | 0.03156                  | -0.03992                 | 0.4122                 | 0.7322                  |
| 376 | 1       | -0.3281                  | -0.4409                  | 0.5596                  | -0.3022                 | -0.2962                  | -0.007734                |                        | -0.1256                 |
| 377 | 1       | -0.4425                  | 0.4347                   | 0.6652                  | 0.01344                 | -0.7606                  | -0.7521                  | -0.21                  | 0.45                    |
| 378 | 1       | 0.1175                   | 0.2047                   | 0.4952                  | 1.273                   | -0.6306                  | -0.4521                  | 0.4                    | 0.1                     |
| 379 | 1       | -0.1253                  | 0.6319                   | 0.2024                  | 0.09063                 | -0.1834                  | 0.1451                   | -0.1928                | -0.04281                |
| 380 | 1       | 0.05344                  | 0.6606                   | 0.7011                  | -0.1206                 | -0.6547                  | 0.4838                   | -1.074                 | 0.5459                  |
| 381 | 1       | 0                        | -0.3428                  | 0.0477                  | 0.6259                  | 0.09187                  | 0.3504                   | -0.0475                | 0.4325                  |
| 382 | 1       | 0.4663                   | -0.5966                  | 0.2839                  | 1.012                   | 0.9481                   | 0.9766                   | 1.079                  | 0.07875                 |
| 383 | 1       | -0.3432                  | 0.9639                   | 0.2345                  | -0.0373                 | -0.4314                  | 0.8471                   |                        | -0.7807                 |
| 384 | 1       | 0.4832                   | 1.13                     | -0.3891                 | -0.4809                 | 0.1651                   | 0.2736                   | -0.5843                | 0.1557                  |
| 385 | 1       | 0.49                     | 0.9372                   | -0.6723                 | -0.4541                 | 0.6019                   | 0.5604                   | -0.6575                | 0.5025                  |
| 386 | 1       | 0.2675                   | 0.3947                   | 0.7452                  | 0.5134                  | -0.2406                  | 0.07789                  |                        |                         |
| 387 | 1       | 0.01625                  | -0.8366                  | -0.5061                 | -1.398                  | -0.7119                  | -0.1734                  | -0.3613                | -0.09125                |
| 388 | 1       | -0.0825                  | -0.8153                  | -0.9148                 | -0.8466                 | -0.09063                 | -0.3321                  |                        | 0.02                    |
| 389 | 1       | -0.4163                  | -0.3591                  | -1.159                  | 1.37                    | 0.005547                 |                          | -0.7138                | 0.4262                  |
| 390 | 1       | 0.5432                   | 0.8704                   | 0.1109                  | -0.2609                 | -0.7249                  | -0.3664                  | -0.7743                | -0.2643                 |
| 391 | 1       | 0.6206                   | 0.3978                   | 0.4183                  | -0.8134                 | -0.3075                  |                          | -0.1969                | 0.8031                  |
| 392 | 1       | 0.2547                   | -0.8281                  | 0.04238                 | 0.000625                | 0.5866                   | -0.5849                  | -0.7728                | 0.7172                  |
| 393 | 1       | 0.4859                   | -0.627                   | -0.1064                 | -0.3382                 | -0.1323                  | 0.00625                  | -0.8516                | -0.2716                 |
| 394 | 1       | 0.2347                   | 0.6519                   | -0.4176                 | -0.009375               | -0.1634                  | -0.1149                  | -0.4928                | 0.1472                  |
| 395 | 1       | 0.1364                   | 0.9136                   | -0.4259                 | -0.4877                 | -1.052                   | -0.5932                  | -0.9111                | -0.8411                 |
| 396 | 1       | 0.5939                   | 0.1511                   | -0.6184                 | -0.02016                | -0.1442                  |                          | 0.7464                 | -0.06359                |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 397 | 1       | 0.2642                   | -0.06859                 | -0.1181                 | -0.1098                 | 0.6961                   | 0.4546                   | 0.1767                 | -0.1533                 |
| 398 | 1       | 0.4575                   | 0.9247                   | 0.5952                  | -0.6366                 | -0.06062                 | -0.1821                  |                        | 0.48                    |
| 399 | 1       | 0.8197                   | 0.4769                   | -0.1926                 | -0.7744                 | -0.2784                  | -0.02992                 | 0.1622                 | 0.3622                  |
| 400 | 1       | 0.0475                   |                          |                         | -0.6666                 | 0.1494                   | 0.3379                   | 0.66                   | 0.04                    |
| 401 | 1       | 0.7875                   | -0.2453                  | 0.2752                  | -0.6066                 | 0.009375                 | -0.3821                  |                        | 0.4                     |
| 402 | 1       | 0.4938                   | -0.1291                  | 1.191                   |                         | -0.8944                  | 0.8341                   |                        | 0.7263                  |
| 403 | 1       | -0.1925                  | 0.2247                   | -0.1348                 | 0.2034                  | 0.4394                   | 0.5379                   | 0.26                   | 0.13                    |
| 404 | 1       | -0.365                   | -0.7878                  | -0.2473                 | 0.3409                  | 0.8869                   | 0.7154                   | 0.8175                 | -0.2725                 |
| 405 | 1       | 0.56                     | -0.002812                | 0.1877                  | 1.036                   | -0.2181                  | -0.2596                  | -0.4375                | 0.0925                  |
| 406 | 1       | 0.1455                   | -0.1273                  | 0.03322                 | 0.9615                  | -0.0326                  | 0.1859                   | 0.588                  | 0.358                   |
| 407 | 1       | 0.0475                   | 0.5047                   | -0.3148                 | -1.107                  | -0.04063                 | -0.5021                  | 0.04                   | 0.25                    |
| 408 | 1       | -0.006406                | 0.6908                   | -0.2587                 | -0.2705                 | -0.7045                  | -0.146                   | 0.4961                 | -0.8639                 |
| 409 | 1       | 0.4675                   | 0.3847                   | -0.3848                 | 0.5834                  | -0.2006                  | 0.3379                   | 0.16                   | 0.08                    |
| 410 | 1       | -0.09125                 | 0.1459                   | -0.2736                 | 0.5947                  | 0.000625                 | 0.3091                   | -0.3288                | -0.2288                 |
| 411 | 1       | -0.6125                  | -0.1453                  | -0.3948                 | 0.9234                  | -0.9406                  | -1.492                   | -1.87                  | -0.35                   |
| 412 | 1       | -0.3797                  | -0.6725                  | -0.04199                | -1.424                  | -0.05781                 | 0.4607                   | 0.06281                | -0.09719                |
| 413 | 1       | -0.1112                  | -0.134                   | -0.3335                 | -0.1153                 | 0.05066                  | 0.3092                   | 0.1013                 | -0.1987                 |
| 414 | 1       | -0.122                   | 0.4152                   | 0.3357                  | -0.2961                 | -0.3801                  | -0.1316                  | -0.8195                | -0.4595                 |
| 415 | 1       | 0.5375                   | 0.8247                   |                         | -2.167                  | -1.741                   |                          | -0.12                  | -0.68                   |
| 416 | 1       | -0.1191                  | 0.4881                   | -0.4914                 | -0.1832                 | -0.4172                  | -0.4687                  | -1.507                 | 0.0134                  |
| 417 | 1       | 0.2436                   | 0.8908                   | 0.04133                 | -0.5804                 | -0.8545                  | -0.516                   | -0.7739                | -0.03387                |
| 418 | 1       | 0.4575                   | 0.8147                   | 0.9452                  | -0.3766                 | -0.3906                  | -0.9921                  | -0.91                  | -3.85E-09               |
| 419 | 1       | -0.00625                 | -0.2791                  | 0.1514                  | -1.03                   | 0.6256                   | -1.146                   | 0.3662                 | -0.9138                 |
| 420 | 1       | -0.1625                  | 0.1547                   | 0.4152                  | 0.7134                  | 0.4094                   | 0.5279                   | 0.28                   | -0.11                   |
| 421 | 1       | -0.1025                  | -0.005313                | -0.5948                 | -0.1366                 | -0.7306                  | -0.5521                  | -2.65E-09              | -0.52                   |
| 422 | 1       | 2.296                    | 3.253                    | -0.01605                | -1.058                  | 0.03813                  |                          |                        | -0.9713                 |
| 423 | 1       | 0.1375                   | -0.2553                  |                         | 0.2834                  | -0.6906                  | -0.1321                  |                        | 0.12                    |
| 424 | 1       | 1.408                    | 0.7847                   | 0.1052                  | 0.3434                  | -0.4506                  | -0.7821                  | -0.38                  | 0.41                    |
| 425 | 1       | 1.608                    | 0.9747                   | 0.0852                  | 0.1034                  | -1.481                   | -1.762                   |                        | 0.16                    |
| 426 | 1       | 1.305                    | 1.242                    | 0.3225                  | -0.1993                 | 0.02664                  | -0.5148                  |                        |                         |
| 427 | 1       | 1.556                    | 1.333                    | -0.5361                 | -1.278                  | -2.222                   | -0.9434                  |                        | -0.1512                 |
| 428 | 1       | 1.756                    | 1.003                    | -0.7261                 | -1.638                  | -1.332                   | -1.123                   | -3.151                 | -2.001                  |
| 429 | 1       | 1.173                    | 0.4297                   | -0.7098                 | -2.272                  | -0.8956                  |                          | -2.645                 |                         |
| 430 | 1       | 1.19                     | 1.087                    | -0.5323                 | -1.884                  | -1.848                   | -2.07                    |                        | -1.658                  |
| 431 | 1       | 0.9681                   | 0.9153                   | -0.2942                 |                         | -1.11                    |                          |                        |                         |
| 432 | 1       | 1.092                    | 0.9197                   | -1.17                   | -0.8816                 | -0.9656                  | -1.307                   | -1.125                 | -1.415                  |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 433 | 1       | 1.715                    | 1.902                    | -0.1473                 | -1.389                  | -2.003                   | -1.265                   |                        | -0.6225                 |
| 434 | 1       | 0.9091                   | -0.2037                  | 0.09684                 | 0.5451                  | -0.279                   | 1.39                     | -0.6084                | -0.08836                |
| 435 | 1       | -0.06687                 | -1.57                    | 0.08082                 | -0.1609                 | -0.505                   | 0.7135                   | -0.03438               | -0.3344                 |
| 436 | 1       | 0.3334                   | 0.5506                   | -0.6289                 | -0.3406                 | -0.5947                  |                          | -0.004063              | -0.3841                 |
| 437 | 1       | 0.6475                   | 1.215                    | -0.3448                 | 0.6634                  | -0.6106                  |                          | -0.36                  | -0.54                   |
| 438 | 1       | 0.9354                   | 1.113                    | -0.427                  | -1.369                  | -0.8628                  | -0.05426                 | -0.05215               | 0.1079                  |
| 439 | 1       | 0.9498                   | 1.207                    | 0.07746                 | -0.3243                 | -0.5584                  | -0.1598                  | -0.4777                | -0.7177                 |
| 440 | 1       | -0.5525                  | -0.1053                  | -0.0548                 | 0.9734                  | -0.5806                  | 0.4079                   |                        |                         |
| 441 | 1       | -0.5125                  |                          | 1.215                   |                         |                          | 0.04789                  |                        | -0.04                   |
| 442 | 1       | -0.3875                  |                          | -0.6498                 | 0.1284                  | -0.3556                  | -0.2071                  | -0.685                 | -0.145                  |
| 443 | 1       | 0.09203                  | 0.7592                   | 1.03                    | -0.002031               | -0.6461                  | -0.1176                  |                        | 0.05453                 |
| 444 | 1       | -0.0525                  | -0.3753                  | -0.6548                 | -0.01656                | 0.4394                   | 0.1179                   | 0.15                   | 0.05                    |
| 445 | 1       | 0.1525                   | 0.2197                   | -0.8298                 | -0.3716                 | -0.4256                  | 0.04289                  | -0.095                 | -0.165                  |
| 446 | 1       | 1.932                    | -2.201                   | -4.37E-12               | -2.172                  | -0.2358                  | -0.1773                  | 0.2548                 | 1.045                   |
| 447 | 1       | 0.28                     | -1.123                   | -0.0623                 | 0.06594                 | -0.03812                 | -0.3996                  |                        | 0.1525                  |
| 448 | 1       | 0.6659                   | 0.553                    |                         | -0.0482                 | 0.2277                   | 0.4462                   | -1.762                 | -0.8316                 |
| 449 | 1       | 0.1968                   | -0.05602                 | -0.7755                 | -0.2673                 | -0.1113                  | -0.1328                  | -0.5807                | -0.1807                 |
| 450 | 1       | 0.6206                   | -1.182                   | 0.9383                  | 0.8066                  | -1.557                   | -1.519                   |                        | 0.5631                  |
| 451 | 1       | 0.205                    | -0.3578                  | -0.4373                 | 0.1609                  | -0.2731                  | -0.4346                  | -0.3725                | -0.1525                 |
| 452 | 1       | 0.5232                   | -0.05961                 | 0.0409                  | 0.2891                  | 0.1651                   |                          | 0.3557                 | -0.1443                 |
| 453 | 1       | -0.4925                  | 0.3147                   | -0.1648                 | 0.4334                  | -1.161                   | -0.2221                  | -1.34                  | 3.98                    |
| 454 | 1       | 0.2723                   | -0.6105                  | -2.13E-11               | -0.04176                | 0.6442                   | 0.4427                   | 0.3248                 | 0.8948                  |
| 455 | 1       | -0.8637                  | 0.2134                   | 0.7839                  | -0.1478                 | -0.7519                  | 0.6966                   | 0.4487                 | -0.3413                 |
| 456 | 1       | 0.9055                   | 0.5227                   |                         | -0.05859                | -0.8427                  | 0.1459                   |                        | -0.752                  |
| 457 | 1       | 0.6606                   | 0.2678                   | -0.4517                 | 0.7266                  | 0.9325                   |                          | 0.6631                 | 0.6931                  |
| 458 | 1       | 0.7125                   | -1.67                    | 0.8202                  | -1.082                  | 1.034                    | -0.06711                 | 0.655                  | 0.885                   |
| 459 | 1       | -0.4825                  | -1.715                   | -0.2348                 | 0.9634                  | -0.7206                  | -0.3921                  | -0.34                  | 0.09                    |
| 460 | 1       | -1.259                   | -0.3817                  | -1.241                  | -0.413                  | 0.323                    | 0.1815                   | 0.5636                 | -0.6864                 |
| 461 | 1       | -0.4225                  | -0.6153                  | -0.0748                 | 0.1934                  | -0.1106                  |                          | -2.65E-09              | -0.32                   |
| 462 | 1       | -0.7775                  | 0.3897                   | 0.3702                  | -0.7516                 | -0.8656                  | -0.4171                  |                        | 0.525                   |
| 463 | 1       | 0.4297                   | -0.2631                  | -0.4226                 | 0.2656                  | 0.1816                   | 0.2301                   | -0.2578                | -0.08781                |
| 464 | 1       | -0.3325                  | -0.4753                  | -0.1648                 | -0.3866                 | -0.4606                  | 0.08789                  | -0.39                  | 0.05                    |
| 465 | 1       | 0.002891                 | 0.6001                   | -0.5094                 | -0.3712                 | -0.5352                  | -0.7667                  | 0.3954                 | -0.5146                 |
| 466 | 1       | -0.01859                 | -0.1014                  | 1.029                   | -0.9227                 | -0.4967                  | -0.0482                  |                        | 0.2939                  |
| 467 | 1       | 0.2875                   | 0.9447                   | -0.2848                 | 0.7634                  | -0.1006                  | 0.1579                   | 0.38                   | -3.85E-09               |
| 468 | 1       | -0.304                   | 0.2232                   | 0.7937                  | 0.802                   | -0.6121                  |                          |                        | 0.3285                  |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 469 | 1       | 2.293                    | 3.24                     | 0.5102                  | 1.288                   | -0.9556                  |                          | 1.445                  | 0.925                   |
| 470 | 1       | 1.479                    | 2.196                    | 0.4164                  | 0.8947                  | 0.000625                 | -0.2009                  | 0.7212                 | 0.4112                  |
| 471 | 1       | -0.3664                  | -0.9192                  | 1.031                   | -0.1104                 | -0.2745                  | 0.584                    | 0.1661                 | 0.7361                  |
| 472 | 1       | -0.0025                  | -0.1153                  | 0.2452                  | -0.2166                 | -0.06063                 | 0.06789                  | 0.33                   | 0.29                    |
| 473 | 1       | 0.6375                   | 0.3747                   | 0.5252                  | -1.017                  | -0.5406                  | -1.052                   | -0.67                  | -0.52                   |
| 474 | 1       | -0.307                   | -0.03977                 |                         | 0.699                   | -0.8951                  | -0.05656                 |                        | 0.2855                  |
| 475 | 1       | 0.1977                   | -0.7951                  |                         | -0.3963                 | -0.2004                  | -0.1019                  | 0.7002                 | -0.08977                |
| 476 | 1       | 0.3988                   | 0.7059                   | 0.4364                  | 0.8447                  | 0.000625                 | 0.1391                   | -1.699                 | -0.2388                 |
| 477 | 1       | -0.2977                  | 0.3795                   | -4.37E-12               | 0.2682                  | -0.3558                  | 0.1027                   |                        | 0.7848                  |
| 478 | 1       | 0.3727                   | 1.07                     | -0.06965                | 0.3786                  | 0.3645                   | 0.343                    | -0.1648                | -0.3948                 |
| 479 | 1       | 0.2253                   | -1.018                   | 0.183                   | 0.4212                  | 0.8572                   | 1.236                    | -0.1822                | 1.728                   |
| 480 | 1       | -0.1389                  | 0.2383                   | -0.07121                | -0.453                  | 0.08297                  | -0.2885                  | -1.196                 | -0.05641                |
| 481 | 1       | -0.7432                  | -0.656                   | 0.2745                  | -0.8473                 | -0.2713                  | -0.8228                  | -2.381                 | -0.8907                 |
| 482 | 1       | 0.6875                   | 0.1747                   | -0.3748                 | -0.07656                | -0.3906                  | -0.2721                  | -0.05                  | 0.13                    |
| 483 | 1       | -0.03844                 | -0.01125                 | -0.5207                 | -0.5225                 | -0.1666                  | -0.828                   | 0.04406                | 0.1041                  |
| 484 | 1       | 0.1475                   | 1.335                    | -0.1648                 | -1.237                  | -0.2106                  | -0.2221                  | -0.92                  | 0.37                    |
| 485 | 1       | 0.3275                   | 0.5547                   | -1.115                  | -0.9366                 | 0.2594                   | -0.5521                  | -0.04                  | 0.04                    |
| 486 | 1       | 0.1055                   | -0.6073                  | -0.3368                 | -0.2986                 | 0.1773                   | -0.4141                  | -0.332                 | -0.03203                |
| 487 | 1       | -0.3366                  | -1.479                   | -0.7489                 | -1.551                  | -0.2048                  | -0.9162                  | -0.2441                | 0.1359                  |
| 488 | 1       | -0.08375                 | -0.2266                  | -0.4861                 | -0.2878                 | -0.4419                  | -0.4534                  | -0.6613                | 0.3287                  |
| 489 | 1       | 0.03328                  | -0.1295                  | -0.839                  | -1.061                  | -0.3948                  | -0.6663                  | -0.6842                | 0.5958                  |
| 490 | 1       | -0.3325                  | -0.09531                 | -0.2348                 | 0.3934                  | -0.06062                 | -0.1221                  | -0.09                  | 0.11                    |
| 491 | 1       | 0.1014                   | 0.1886                   | -0.0008984              | 0.2973                  | 0.1933                   | 0.7218                   | 1.214                  | 0.1839                  |
| 492 | 1       | -0.1319                  | 0.2753                   | -0.3042                 | -0.1659                 | 8.25E-09                 | 0.1185                   | 0.9506                 | 0.1306                  |
| 493 | 1       | 0.2064                   | 0.6736                   | -0.2559                 | -0.1676                 | -0.4217                  | -0.4632                  | 0.1389                 | 0.02895                 |
| 494 | 1       | -0.8653                  | -1.718                   | 0.03238                 | 0.000625                | 0.3266                   | -0.2049                  | -0.06281               | 0.8772                  |
| 495 | 1       | -0.6974                  | -0.3802                  | 0.3703                  | 0.1086                  | -0.4155                  | -0.957                   | 1.185                  | -0.3149                 |
| 496 | 1       | 0.1653                   | 0.8825                   | 0.223                   |                         | -0.3828                  | -0.6843                  |                        | -0.3322                 |
| 497 | 1       | 0.3575                   | 0.8647                   | -0.004805               | -0.2866                 | -0.3406                  | -0.6121                  |                        | -0.13                   |
| 498 | 1       | -0.1239                  | -0.3067                  | -0.9162                 | 0.002031                | 0.338                    | -0.07352                 | 0.2586                 | -0.6614                 |
| 499 | 1       | 0.2175                   | -0.04531                 | -0.1248                 | -0.5166                 | 0.1794                   | -0.02211                 | -2.11                  | 0.61                    |
| 500 | 1       | -0.2062                  | -0.4891                  | -0.8786                 | -1.12                   | -1.054                   | -0.3059                  | -1.444                 | -0.07375                |
| 501 | 1       | 1.101                    | 1.448                    | -1.122                  | -0.4634                 | -0.7475                  | -0.739                   | 0.4031                 | 1.233                   |
| 502 | 1       | -0.0125                  | -0.5853                  | 0.3752                  | 0.1034                  | -0.3006                  | -0.1521                  | -0.73                  | -0.27                   |
| 503 | 1       | -0.2475                  | 0.5697                   | 0.2902                  | 0.3484                  | -0.3556                  | 0.7729                   |                        | 0.055                   |
| 504 | 1       | 0.0523                   | -0.8705                  | -6.69E-12               | 0.7982                  | -0.2258                  | 0.5427                   | -0.2552                | 0.6548                  |



Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 505 | 1       | 0.7575                   | 0.9247                   | -0.0648                 | -0.05656                | 0.1094                   |                          | 0.2                    | -0.22                   |
| 506 | 1       | -0.1075                  | 0.2397                   | 0.0802                  | 0.4484                  | -0.2956                  | -0.8071                  |                        | -0.615                  |
| 507 | 1       | -0.3814                  | 0.2558                   | 0.2563                  | 0.5245                  | -0.9595                  | -0.681                   |                        | 0.09109                 |
| 508 | 1       | -0.5225                  | -0.1153                  | 1.255                   | 0.003437                |                          | 0.2879                   |                        | -0.94                   |
| 509 | 1       | -0.2025                  | -0.6553                  | 0.1352                  | 0.2934                  | -0.7106                  | -0.2221                  | -2.65E-09              | -0.11                   |
| 510 | 1       | -0.5025                  | -0.3253                  | 1.165                   | 0.3934                  | -1.411                   | 0.2479                   |                        |                         |
| 511 | 1       | -0.1725                  | 0.8447                   | 0.4852                  | 0.6334                  | 0.3494                   | -0.3621                  |                        | -0.5                    |
| 512 | 1       | 0.6225                   | -0.2603                  | -0.1998                 | -0.5316                 | 0.8344                   | -0.01711                 | -0.255                 | 0.295                   |
| 513 | 1       | 0.5458                   | 0.04297                  | -0.2065                 | -0.3383                 | 0.6877                   | 0.03617                  | -0.2017                | 0.1283                  |
| 514 | 1       | -0.2375                  | 0.2997                   | -0.3498                 | 0.9784                  | -0.6456                  | -0.5271                  | -0.015                 | -0.675                  |
| 515 | 1       | 0.4631                   | -0.1397                  | -0.01918                | -0.4809                 | -0.265                   | -0.3465                  | -0.2344                | 0.8556                  |
| 516 | 1       | -0.3947                  | 0.0725                   | 0.533                   | 0.1413                  | 0.7472                   | -0.4343                  | -2.232                 | -0.3322                 |
| 517 | 1       | 0.5648                   | 0.272                    | 0.9825                  | 0.1008                  | -0.5633                  | -0.07477                 | 0.2473                 | 0.08734                 |
| 518 | 1       | 1.273                    | 0.7403                   | 0.3808                  | -0.9109                 | -0.925                   | -0.6065                  |                        | 1.216                   |
| 519 | 1       | 0.7647                   | -0.008125                | 0.8524                  | 0.000625                | 0.8066                   | 1.335                    | 0.007187               | 1.357                   |
| 520 | 1       | 0.3075                   | 1.525                    | 0.8352                  | 0.05344                 | 0.0937                   | 0.3279                   | 0.31                   | 1.02                    |
| 521 | 1       | 0.01203                  | -0.8408                  | -0.9003                 | 0.168                   | 0.1539                   | 0.7524                   | -0.6555                | 0.1645                  |
| 522 | 1       | 0.1305                   | 0.3677                   | 0.03816                 | -0.1236                 | -0.9477                  |                          | -0.807                 | -0.007031               |
| 523 | 1       | -0.2314                  | -0.1242                  | 1.826                   | -0.1554                 | 1.851                    | 0.959                    | -0.3789                | 2.051                   |
| 524 | 1       | -1.087                   | -0.9903                  | 1.68                    | -0.3616                 | 0.4544                   | 0.6329                   | 0.605                  | 0.005                   |
| 525 | 1       | -0.1725                  | -0.3553                  | 1.175                   | -0.3766                 | 0.1394                   | 0.5079                   | 1.77                   | 0.55                    |
| 526 | 1       | 0.2331                   | -1.05                    | 0.2708                  | -0.6809                 | 0.085                    | 0.5935                   | -0.03437               | 0.1056                  |
| 527 | 1       | 0.4339                   | 0.2311                   | -0.0484                 | -1.4                    | 0.2658                   | -0.005703                |                        | 0.8764                  |
| 528 | 1       | -0.3962                  | 0.2909                   | 0.04145                 | -0.9503                 | -0.3644                  | -0.06586                 |                        | 0.6662                  |
| 529 | 1       | 1.728                    | 2.475                    | 0.2652                  | 0.04344                 | -0.4606                  | -0.3121                  | -1.16                  | 0.25                    |
| 530 | 1       | 2.404                    | 3.051                    | 0.2818                  | -0.67                   | -0.1041                  | -0.5055                  |                        | 1.087                   |
| 531 | 1       | 1.925                    | 1.952                    | 1.513                   | 0.5513                  | 0.05719                  | 0.2857                   |                        | -0.002188               |
| 532 | 1       | 0.5975                   | 1.105                    | 0.2052                  | -0.4066                 | -0.3906                  | -0.1221                  | 0.25                   | 0.13                    |
| 533 | 1       | -0.8366                  | -0.4095                  | 0.1811                  | 0.0193                  | -1.505                   | -0.6362                  | 1.956                  | 1.416                   |
| 534 | 1       | -0.5914                  | -0.8642                  | -0.9537                 | -0.5455                 | -0.8795                  | 1.349                    | 1.321                  | 0.6011                  |
| 535 | 1       | 0.001563                 | 0.7087                   | 0.009258                | 0.3975                  | -0.7666                  | -0.448                   |                        | 1.404                   |
| 536 | 1       | 1.93                     | 1.477                    | 0.0476                  | -1.294                  | -0.5682                  | -1.28                    | 1.172                  | 0.9424                  |
| 537 | 1       | 0.6306                   | 0.7578                   | -0.9117                 | 0.1966                  | -0.7675                  | -1.099                   | 1.013                  | 1.703                   |
| 538 | 1       | 0.1688                   | 0.846                    | -0.6235                 | -0.5852                 | 1.861                    | 0.2992                   | 1.331                  | 2.681                   |
| 539 | 1       | 0.01164                  | -1.391                   | 0.7493                  | -0.7324                 | -1.146                   | -0.618                   |                        | 0.2841                  |
| 540 | 1       | -1.334                   | -0.547                   | 2.333                   | 1.542                   | -1.662                   | -1.824                   | 1.048                  | -1.272                  |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | -1                       | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 541 | 1       | -0.1925                  | -0.1353                  | 0.0652                  | 1.023                   | -0.8006                  |                          | -0.09                  | 1.47                    |
| 542 | 1       | -0.1331                  | -0.5759                  | -0.09543                | 0.4428                  | -0.4512                  | -0.7127                  | 0.4694                 | 0.6694                  |
| 543 | 1       | -0.3725                  | 0.5747                   | -0.1348                 |                         | -0.6606                  | -0.1921                  | 0.84                   | 0.93                    |
| 544 | 1       | -0.3653                  | -0.5781                  | -1.088                  | 0.000625                | -0.3334                  | 0.5851                   | 2.417                  | 0.7772                  |
| 545 | 1       | -0.4825                  | -1.875                   | -1.795                  | -0.7066                 | -0.5706                  | 0.1779                   | 2.21                   | 0.38                    |
| 546 | 1       | 0.4975                   | 0.6247                   | -0.3548                 | 1.933                   | 0.6394                   | -0.01211                 | 2.54                   | 0.9                     |
| 547 | 1       | -0.3953                  | -2.068                   | 0.8224                  | 0.3606                  | -0.6134                  | 0.3949                   | 1.247                  | 0.1872                  |
| 548 | 1       | 0.2977                   | 0.3649                   | 0.07541                 | 0.7137                  | 0.2596                   | 1.188                    | 1.01                   | -0.6298                 |
| 549 | 1       | 0.4153                   | 1.582                    | 0.803                   | 2.001                   | 0.2372                   | 0.3557                   | 0.4778                 | 0.4278                  |
| 550 | 1       | 0.3575                   | -0.3453                  | 0.6952                  | 0.9634                  | 2.669                    | 2.288                    | 1.68                   | -0.8                    |
| 551 | 1       | -0.0975                  | -0.5603                  | 0.3802                  | 0.008438                | 1.174                    | 1.993                    |                        | 0.425                   |
| 552 | 1       | 0.06469                  | -0.6481                  | 0.7224                  | 0.000625                | 0.9566                   | 0.4551                   |                        | 0.6672                  |
| 553 | 1       | 2.118                    | 2.165                    | 0.3252                  | -0.1066                 |                          | -0.7821                  |                        | -0.43                   |
| 554 | 1       | 1.689                    | 2.056                    | -0.3337                 | 0.8545                  | 1.96                     | 0.309                    | 0.04109                | -0.1289                 |
| 555 | 1       | 0.7175                   | 1.465                    | 0.7752                  | 1.343                   | 0.7594                   | 1.348                    |                        | 0.99                    |
| 556 | 1       | 1.403                    | 2.03                     | 0.6202                  | 1.028                   | 0.5144                   | 0.4529                   | -0.055                 | 0.995                   |
| 557 | 1       | 1.493                    | 2.85                     | 0.5802                  | 0.6584                  | 0.9844                   | 0.7029                   | -1.195                 | 0.155                   |
| 558 | 1       | 0.4275                   | 0.8747                   | -0.5248                 | 0.4934                  |                          | -0.7421                  | 1.09                   | -1.04                   |
| 559 | 1       | -0.3504                  | -0.03316                 | 0.4873                  | 0.5356                  | -0.07848                 | 0.1                      | 0.6021                 | -0.4879                 |
| 560 | 1       | 0.7581                   | -0.4447                  | 0.7558                  | 0.4941                  | -0.48                    | 0.4185                   |                        | 0.7506                  |
| 561 | 1       | -0.7325                  | 0.2647                   | 0.6752                  | 0.3334                  | -0.7106                  | -0.2721                  |                        | -0.42                   |
| 562 | 1       | -0.3025                  | -1.435                   | 0.8852                  |                         | -0.8606                  |                          |                        | -0.07969                |
| 563 | 1       | -0.2722                  | 0.455                    | 1.136                   | 0.02375                 | -0.4903                  | -0.2218                  |                        | -0.4177                 |
| 564 | 1       | -1.48                    | -1.443                   | 0.8575                  | 0.6257                  | -0.3884                  | -0.2098                  | -1.418                 |                         |
| 565 | 1       | -0.2631                  | 0.2541                   | 1.185                   | 0.7628                  | -0.1713                  | -0.1427                  |                        | 0.05937                 |
| 566 | 1       | -1.271                   | -0.8242                  | 0.5263                  |                         | -0.4495                  | -0.591                   |                        |                         |
| 567 | 1       | -1.094                   | 0.8934                   | 0.3639                  | 0.1122                  | -1.222                   | -0.6234                  |                        | -0.2513                 |
| 568 | 1       | -0.3153                  | -0.9181                  |                         | 0.000625                | -0.1134                  | -0.6849                  | 0.2372                 | 0.4272                  |
| 569 | 1       | -0.3009                  | -0.2638                  | 1.007                   | -0.195                  | -0.7991                  | -0.7405                  |                        | 0.7216                  |
| 570 | 1       | -0.6294                  | 0.7278                   | 0.5583                  | 0.7566                  | 0.0425                   | -1.459                   | 0.4531                 | 0.2831                  |
| 571 | 1       | -0.1622                  | 0.585                    | 0.7355                  | -0.1563                 | 0.1097                   | 0.8182                   | 0.4903                 | -0.04969                |
| 572 | 1       | -0.4864                  | 0.2908                   | 0.6913                  | 0.1195                  | -0.7445                  | 0.04398                  |                        | -0.2439                 |
| 573 | 1       | 0.0309                   | 1.398                    | 0.7686                  | 0.03684                 | -0.3572                  | 0.4013                   |                        | -0.3866                 |
| 574 | 1       | -0.2046                  | 1.023                    | 1.603                   | 0.5414                  | -0.5427                  | -0.05418                 |                        | -1.032                  |
| 575 | 1       | -0.6662                  |                          | 1.311                   | -0.5603                 |                          | 0.04414                  |                        | -0.4838                 |
| 576 | 1       | -0.4517                  |                          | -0.02404                | 0.4842                  | -1.07                    | 1.109                    | -0.5592                | -0.09924                |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 577 | 1       | -0.3025                  | 0.5347                   |                         | 0.4534                  | -0.2106                  | 0.02789                  | 0.04                   | -0.3                    |
| 578 | 1       | -0.5555                  |                          |                         |                         |                          | -0.2852                  |                        | -0.493                  |
| 579 | 1       | -0.9464                  |                          |                         | 1.89                    | -1.645                   | 1.094                    |                        |                         |
| 580 | 1       | -0.8325                  | 0.2747                   | 0.5652                  | 0.1634                  | -0.6706                  | 0.1179                   | -0.29                  | -0.92                   |
| 581 | 1       | -0.5253                  | -0.2681                  | 0.2324                  | 0.000625                | -0.01344                 | -0.2549                  | -1.043                 | 0.1272                  |
| 582 | 1       | -0.1169                  | -0.9297                  | 0.6308                  | 0.2791                  | -0.025                   | 0.4435                   |                        | 0.09562                 |
| 583 | 1       | 0.6475                   | 0.7847                   | -0.8148                 | 0.3434                  | -1.261                   | -0.08211                 | -2.09                  | 1.19                    |
| 584 | 1       | -0.4825                  | 0.4547                   | 0.5352                  | 0.4234                  | 0.7794                   | -0.04211                 | -1.1                   | 1.58                    |
| 585 | 1       | -0.6919                  | -0.8947                  | 0.8058                  | 0.1741                  | 0.03                     | -0.3315                  | 0.4306                 | -0.5894                 |
| 586 | 1       | -0.7294                  | -0.9122                  | 0.3783                  | -0.2334                 |                          | 0.161                    | -0.6669                | 0.08312                 |
| 587 | 1       | 0.0775                   | 0.3347                   | 0.2752                  | -0.3966                 | -0.3706                  | 0.3179                   |                        | 0.5                     |
| 588 | 1       | -0.7644                  | -0.6372                  | 0.1733                  | -1.418                  | -0.0025                  | -0.114                   | -0.2019                | -0.3919                 |
| 589 | 1       | 0.1807                   | 0.07793                  | 0.8184                  | -0.09332                | -0.6074                  | -0.6889                  | -1.047                 | -0.3168                 |
| 590 | 1       | 3.393                    | 1.34                     | 0.6208                  | -0.3709                 | -0.235                   | -0.6265                  |                        | 2.406                   |
| 591 | 1       | 1.023                    | -0.02953                 | 1.021                   |                         | 0.3152                   | -0.1063                  |                        | 0.7458                  |
| 592 | 1       | 3.033                    | 2.66                     |                         |                         | 1.024                    |                          |                        | -0.1249                 |
| 593 | 1       | 2.302                    | 2.739                    | -8.44E-12               | 1.108                   | -2.716                   | -0.0773                  | -4.405                 | 2.175                   |
| 594 | 1       | -0.002266                | 0.7549                   | -0.2246                 | -0.3163                 | -0.5404                  | 0.02813                  | 4.01                   | 0.1702                  |
| 595 | 1       | -0.6631                  | -0.8459                  | 0.8146                  | 0.7528                  | -0.1613                  | -0.5427                  | 2.639                  | 1.419                   |
| 596 | 1       | -0.8312                  | 0.5659                   |                         | 1.275                   | 0.000625                 | 1.509                    |                        | 0.1212                  |
| 597 | 1       | -0.2425                  | 0.1847                   | 0.6752                  | 0.9434                  | -0.8306                  | 0.1979                   | -0.01                  | 0.06                    |
| 598 | 1       | 0.4425                   | -0.1503                  | -0.2398                 | -0.2716                 | -0.1656                  | 0.4829                   | 0.735                  | -0.045                  |
| 599 | 1       | -0.6225                  | -0.9053                  | 0.5352                  | 0.6234                  | 0.2694                   | 2.068                    | 0.89                   | 1.12                    |
| 600 | 1       | -0.2525                  | -0.6953                  | -0.5748                 | 0.3734                  | -0.6406                  | 0.9179                   | -0.29                  | 0.09                    |
| 601 | 1       | 0.3498                   | -0.453                   | -0.3525                 | -0.5043                 | 0.3416                   | 0.1002                   | 0.2723                 | 0.3823                  |
| 602 | 1       | -0.03695                 |                          | -0.3193                 | -1.181                  | -0.3351                  | 0.6334                   | 0.9655                 |                         |
| 603 | 1       | 1.453                    | -0.5603                  | 0.7302                  | -0.4916                 | -0.3456                  | 0.7229                   |                        | 0.735                   |
| 604 | 1       | 0.0975                   | -0.8453                  | 0.3752                  | 0.2034                  | 0.5594                   | 1.148                    | 0.22                   | 0.67                    |
| 605 | 1       | 0.5775                   | -2.505                   | -1.795                  | -1.137                  | -0.2306                  | -0.05211                 | 3.44                   | -1.29                   |
| 606 | 1       | 0.4133                   | -2.389                   | -0.879                  | -1.971                  | 0.5652                   | 0.1637                   | 5.276                  | -1.174                  |
| 607 | 1       | 0.705                    |                          |                         | -0.3891                 | 0.6469                   | 0.3354                   | 1.738                  | -1.072                  |
| 608 | 1       | 0.8542                   | -0.8686                  | -1.498                  | -1.8                    | 0.4461                   | 0.3246                   | 1.497                  | -1.553                  |
| 609 | 1       | 0.452                    | -1.661                   | -2.19                   | -1.262                  | 0.6539                   |                          | 2.575                  | -2.585                  |
| 610 | 1       | 1.633                    | -1.5                     | -2.469                  | -2.431                  | 0.675                    |                          | 2.536                  | -1.974                  |
| 611 | 1       | 1.276                    | -2.027                   | -2.296                  | -2.638                  | 0.5981                   | -0.2234                  | 2.469                  | -1.871                  |
| 612 | 1       | -0.426                   | -0.8188                  | -1.078                  | -1.27                   | 0.1559                   |                          | 0.09648                | -1.414                  |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | -1                       | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 613 | 1       | -0.8753                  | 0.7419                   | -1.158                  | -1.309                  | -0.2634                  |                          | 0.2672                 | -2.233                  |
| 614 | 1       | -0.5896                  | 1.178                    | -0.5019                 | -0.9537                 | -0.1477                  | -0.9092                  | 0.3429                 | -1.117                  |
| 615 | 1       | 0.6686                   | -0.7042                  | -0.8137                 | -0.9855                 | 0.4905                   |                          | 0.4211                 | -0.1689                 |
| 616 | 1       | -0.07215                 | 0.03504                  | -1.764                  | -1.106                  | 0.2497                   | -0.6818                  | 1.77                   | -2.45                   |
| 617 | 1       | 0.03688                  | 0.03406                  | -1.595                  | -1.117                  | 0.2887                   | -1.113                   | 1.919                  | -2.341                  |
| 618 | 1       | 0.3975                   | 0.05469                  | -0.9848                 | -1.047                  | -0.3706                  | 0.3979                   | 1.94                   | -1.72                   |
| 619 | 1       | 0.1775                   | -0.3353                  | -0.9248                 | -0.1966                 | -0.1906                  | -0.08211                 | 0.12                   | 0.32                    |
| 620 | 1       | 0.4488                   | 0.4559                   | -0.4736                 | -0.5053                 | 0.000625                 | 0.9091                   | -0.1088                | 1.341                   |
| 621 | 1       | -0.1475                  | -0.0003125               | 1.08                    | -0.1716                 | -0.05562                 | 0.1529                   | 1.245                  | -0.085                  |
| 622 | 1       | -0.1666                  | 0.3705                   | 1.011                   | -0.1407                 | -0.7948                  | -0.2762                  |                        | 0.9059                  |
| 623 | 1       | 2.21                     | 1.887                    | 0.4574                  | 0.1756                  | 0.7816                   | 1.66                     | -0.07781               | 0.3522                  |
| 624 | 1       | 0.2363                   | -0.7866                  | 1.344                   | 0.5522                  | -0.5819                  | 0.1866                   | -0.6913                | 0.5187                  |
| 625 | 1       | 0.3333                   | -0.01949                 | 0.871                   | 0.6393                  | -0.2648                  | 0.2337                   |                        | 0.9658                  |
| 626 | 1       | 0.4625                   | -1.2                     | -0.0198                 | -0.8716                 | -0.8156                  | 0.3129                   |                        | -0.135                  |
| 627 | 1       | -0.5625                  | -0.9053                  | -0.6348                 | 0.3734                  | 0.6894                   | 1.378                    | 0.76                   | -0.28                   |
| 628 | 1       | 1.038                    | -0.01531                 | -0.1048                 | -1.217                  | -0.07062                 | 0.01789                  | -0.04                  | 0.56                    |
| 629 | 1       | 0.645                    | 0.04219                  | -0.2673                 |                         | 0.2169                   | 0.9254                   | -0.4425                | -0.0725                 |
| 630 | 1       | 0.03984                  | -0.263                   | 0.8575                  | 2.086                   | -0.3083                  | 0.06023                  | -0.09766               | -0.5977                 |
| 631 | 1       | -0.2994                  | 1.028                    | 0.5083                  | -0.4434                 | 0.0225                   | 0.381                    | 0.2931                 | -0.1469                 |
| 632 | 1       | -0.8162                  | -0.5291                  | 0.7414                  | 0.2397                  | -0.2944                  | 0.5941                   |                        | -0.5038                 |
| 633 | 1       | 0.3376                   | -1.465                   | 1.065                   | -0.03648                | -1.571                   | 1.888                    | 0.5301                 |                         |
| 634 | 1       | -0.2125                  | -0.2453                  | 0.8652                  | 0.2634                  | -1.051                   | 1.488                    |                        | -0.29                   |
| 635 | 1       | -0.005117                | 0.2121                   | 1.123                   | 1.461                   | -1.173                   | -0.2447                  |                        | -0.1126                 |
| 636 | 1       | -0.4814                  | 0.08578                  | 0.8163                  | 1.545                   | -0.1495                  | 1.169                    |                        | -0.9289                 |
| 637 | 1       | -0.0525                  | -0.4553                  |                         | 0.3834                  | 0.05938                  | 0.3579                   | 0.73                   | 0.31                    |
| 638 | 1       | -0.2697                  | -0.5825                  | 0.508                   | -0.2738                 | -0.4878                  | 0.0007031                |                        | -0.3872                 |
| 639 | 1       | -0.8462                  | -0.1891                  | 1.251                   | 1.95                    | 0.005625                 | 2.114                    |                        | -0.1638                 |
| 640 | 1       | -0.1994                  | -1.262                   | 0.7583                  | -1.303                  | -0.1175                  | 0.08102                  | 0.7831                 | -0.3169                 |
| 641 | 1       | -0.3332                  | -0.446                   | 0.7145                  | 1.543                   | -0.9813                  | 0.9772                   | 2.009                  | -0.3607                 |
| 642 | 1       | -0.1825                  | 0.3147                   | 1.835                   | 1.543                   | -0.5306                  | 0.8179                   |                        | 0.55                    |
| 643 | 1       | 0.1463                   | -0.3866                  | 0.3539                  | -0.4178                 | -0.2219                  | 0.05664                  |                        | -0.09125                |
| 644 | 1       | 0.5369                   | -2.536                   | 0.1146                  | 0.002813                | 0.2688                   | 0.9573                   | 1.999                  | 0.5194                  |
| 645 | 1       | 0.3061                   | -0.4067                  | 0.5138                  | 0.312                   | 0.798                    | 0.6565                   | 1.139                  | 0.8886                  |
| 646 | 1       | -0.00375                 | 0.1434                   | -0.01605                | -0.1378                 | -0.02187                 | 0.1066                   | 0.05875                | -0.01125                |
| 647 | 1       | -0.8273                  | -0.6702                  | -0.7896                 | 1.129                   | -1.475                   | -0.917                   | -1.845                 | 0.05516                 |
| 648 | 1       | 0.1575                   | -0.9853                  | 0.1552                  | 1.703                   | -0.7306                  | -0.7721                  |                        | 0.11                    |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | -1                       | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 649 | 1       | -0.1525                  | -0.7853                  | -0.1848                 | 0.08344                 | 0.4294                   | 0.6379                   | 0.8                    | -0.09                   |
| 650 | 1       | -0.5964                  | -1.309                   | 0.9013                  |                         | 0.5755                   | 0.464                    | 1.086                  | 0.3961                  |
| 651 | 1       | -0.48                    | -0.02281                 |                         | -0.6141                 | -0.9681                  | -0.6596                  | -0.4175                | -0.8275                 |
| 652 | 1       | -1.107                   | -0.8696                  | -0.07904                |                         | -1.935                   | -1.496                   | -1.254                 | -1.554                  |
| 653 | 1       | -0.6536                  |                          | 1.754                   |                         | 0.08828                  | 0.4368                   | 0.8289                 | 0.04891                 |
| 654 | 1       | 0.2972                   | 0.7444                   | 1.405                   | 0.5631                  | -0.4909                  | -0.1024                  | -0.04031               | 0.1597                  |
| 655 | 1       | -0.3825                  | -0.8553                  | -0.1148                 | -0.2466                 | 0.2194                   | -0.02211                 | -0.23                  | -0.38                   |
| 656 | 1       | -0.7094                  | -0.8922                  | 0.7183                  | 0.4266                  | -0.1675                  | 0.401                    |                        | -0.7069                 |
| 657 | 1       | 0.0625                   |                          | 0.0102                  | 0.7984                  | 0.5344                   | -0.5571                  | -0.055                 | -0.675                  |
| 658 | 1       | 0.03875                  |                          | 1.176                   | 0.6747                  | 0.4406                   | -0.2809                  |                        | 0.2912                  |
| 659 | 1       | 0.3411                   | -0.001719                | -0.2312                 | -0.05297                | -0.127                   | -0.3085                  | 0.07359                | 0.3036                  |
| 660 | 1       | 0                        | -0.6428                  | 0.6477                  | 0.1659                  | -0.7481                  |                          | -1.978                 | 0.5425                  |
| 661 | 1       | 0.7109                   | -0.9219                  | 1.539                   | -0.2131                 | -0.3772                  | -0.04867                 |                        | 1.153                   |
| 662 | 1       | -0.01625                 | -0.1291                  | -0.3086                 | -0.2703                 | 0.4456                   | -0.2859                  | -0.6438                | 0.01625                 |
| 663 | 1       | -0.5278                  | -0.04063                 | 0.06988                 | 1.478                   | -1.436                   |                          |                        | 1.155                   |
| 664 | 1       | -0.165                   | -1.348                   | 0.2927                  | 0.3509                  | -1.053                   | 0.1054                   |                        | 1.328                   |
| 665 | 1       | -0.4095                  | -1.072                   | -0.1218                 | 1.126                   | 0.05242                  | -0.4191                  | 0.213                  | -0.177                  |
| 666 | 1       | -0.5125                  | 0.1947                   |                         | 1.293                   | -0.08063                 | 0.09789                  |                        | 0.27                    |
| 667 | 1       | -0.4325                  | -0.3053                  | 1.255                   | 1.603                   | -0.5206                  | -0.2021                  |                        |                         |
| 668 | 1       | -0.385                   | 0.5122                   | 0.8827                  | 0.8009                  | 0.05688                  | 0.5454                   | -1.142                 | -0.1525                 |
| 669 | 1       | -0.4696                  | -1.022                   | -0.01186                | 0.9664                  | -0.1677                  | -0.2292                  | 0.2629                 | 0.02295                 |
| 670 | 1       | 0.4475                   | -1.385                   | -0.0348                 | 1.253                   | -0.4406                  | -0.9121                  | 0.21                   | 0.33                    |
| 671 | 1       | -0.678                   | -0.0007812               | -0.3303                 | 1.658                   | -0.5661                  | -0.7176                  |                        |                         |
| 672 | 1       | -0.1202                  | -0.823                   | 1.617                   | 2.136                   | -0.7684                  | -0.3698                  | -1.058                 | -0.05773                |
| 673 | 1       | -0.6714                  | -0.2142                  | 0.1363                  | 0.4245                  | -0.6695                  | -0.351                   |                        | 0.03109                 |
| 674 | 1       | -0.2925                  | -0.08531                 | 0.6952                  | 1.843                   | -0.1006                  | -0.4821                  |                        | -0.42                   |
| 675 | 1       | -0.7447                  | -1.908                   | -0.04699                | -0.6087                 | -0.2628                  | -0.6743                  |                        |                         |
| 676 | 1       | -0.6125                  | -0.8853                  | 0.0852                  | -0.2566                 | -0.1306                  | 0.08789                  | 0.57                   | -0.17                   |
| 677 | 1       | -0.5487                  | -1.072                   | 0.1289                  | 0.2672                  | -0.006875                | 0.2116                   | 0.04375                | 0.09375                 |
| 678 | 1       | -0.8725                  | -0.7253                  | 0.2352                  | -0.8066                 | -0.000625                | 0.2679                   | -0.34                  | 0.55                    |
| 679 | 1       | -0.0225                  | 0.5047                   | 0.3652                  | 0.6134                  | -0.8406                  | -0.7321                  |                        | 0.84                    |
| 680 | 1       | -0.0275                  | 1.18                     | 0.5602                  | 0.6184                  | -0.1656                  | -0.3171                  |                        | 0.225                   |
| 681 | 1       | 0.5053                   | -1.328                   |                         |                         | -0.8228                  | -0.6243                  | 0.09781                |                         |
| 682 | 1       | -0.6764                  | 0.4908                   | -0.9987                 | -0.8105                 | -0.9045                  | -0.286                   | -1.644                 | -0.6539                 |
| 683 | 1       | -0.8902                  | 0.347                    | -0.1625                 | -0.2943                 | -0.1584                  | 0.06016                  | 0.2323                 | -0.4577                 |
| 684 | 1       | -0.3125                  | 0.7747                   | 1.325                   | 0.7534                  | -0.5906                  | -0.5021                  | 0.09                   | 0.58                    |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 685 | 1       | 0.03625                  | 0.5234                   | -0.4461                 | 1.212                   | -0.07188                 | 0.1566                   | 0.3187                 | -0.2313                 |
| 686 | 1       | -0.2837                  | 0.7334                   | 0.06395                 | 0.3922                  | 0.1581                   |                          | 0.5887                 | -1.371                  |
| 687 | 1       | -0.4425                  | 0.5647                   | -0.4448                 | 0.8134                  | -0.04062                 | 0.3479                   | 0.04                   | -1.01                   |
| 688 | 1       | -0.6825                  | -1.335                   | 0.0952                  | 0.04344                 | -0.6506                  | -0.5021                  | -0.71                  | -0.05                   |
| 689 | 1       | -0.6553                  | 1.012                    | -0.2476                 | -0.8594                 | -0.3034                  | -0.1649                  | 0.2772                 | -0.4728                 |
| 690 | 1       | -0.1066                  | 1.611                    | 0.4711                  | 0.6493                  | -0.3548                  | -0.3262                  | -0.6941                | 0.3259                  |
| 691 | 1       | -0.4437                  | -0.5866                  | 0.4939                  | 0.2522                  | 0.1281                   | 0.1466                   |                        | -0.2313                 |
| 692 | 1       | -0.8522                  | 0.585                    | 0.3055                  | -0.4763                 | -0.7803                  | -0.7418                  | -0.4297                | -0.6397                 |
| 693 | 1       | -0.4502                  |                          | 1.537                   | -0.1443                 | -0.6184                  | -0.1798                  | -0.5577                | -0.6177                 |
| 694 | 1       | 0.9334                   | 0.3906                   |                         | -0.3606                 | -0.05469                 | -0.3162                  |                        | -0.6241                 |
| 695 | 1       | 0.3238                   | 0.02094                  | -0.6686                 | -0.09031                | -0.09438                 |                          | -0.05375               | -0.7838                 |
| 696 | 1       | -0.3437                  | -0.1666                  | 0.9139                  | -0.2478                 | -0.4419                  | -0.7134                  | -0.7513                | 0.2987                  |
| 697 | 1       | 1.05                     | 0.6269                   | 0.5474                  | 0.2956                  | -0.7284                  | -0.3399                  | -0.4078                | 0.1022                  |
| 698 | 1       | 0.4905                   | -0.2923                  | 0.3282                  | -1.074                  | 0.8524                   | 0.4809                   | -0.677                 | -0.217                  |
| 699 | 1       | 0.1775                   | 1.045                    | -1.105                  | -0.5766                 | -0.06063                 | -0.7321                  | 0.78                   | -1.16                   |
| 700 | 1       | 0.08406                  | 0.2012                   | 0.5918                  | 0.22                    | 0.2059                   | -0.03555                 | 0.3366                 | -0.4234                 |
| 701 | 1       | 0.7911                   | 0.8983                   | -0.4412                 | -0.703                  | 0.913                    | 0.4615                   | -0.3664                | 0.1136                  |
| 702 | 1       | 3.049                    | 0.1758                   | -0.01371                | -1.655                  | -1.36                    | -1.051                   | 0.01109                | -2.099                  |
| 703 | 1       | 2.939                    | -0.01406                 | 0.8864                  | -2.605                  | -1.349                   | -0.4409                  | 0.4713                 | -0.8087                 |
| 704 | 1       | -0.3475                  | -1.1                     | 1.19                    | 0.2184                  | -0.6856                  | -0.2671                  | 0.515                  | 0.455                   |
| 705 | 1       | 0.1736                   | -1.129                   | 1.071                   |                         |                          | -0.396                   | -0.5739                | 2.216                   |
| 706 | 1       | -0.3822                  | 0.205                    |                         | 0.9637                  | 0.02965                  | 0.1982                   | -0.1197                | 0.2503                  |
| 707 | 1       | -0.8402                  |                          | 0.09746                 | 0.0357                  | -0.3084                  | -0.3298                  | -0.6877                | 0.3523                  |
| 708 | 1       | 0.3325                   | 1.04                     | 1.05                    | 1.078                   | 0.7044                   | 1.843                    | 1.615                  | 0.295                   |
| 709 | 1       | -0.5866                  | 0.08062                  | 0.7611                  | -0.06062                | 0.2853                   | 1.164                    | 0.1559                 | 0.1059                  |
| 710 | 1       | -0.4847                  | -0.1675                  | 0.683                   | 0.2912                  | 0.2772                   | -0.0843                  |                        | 0.7278                  |
| 711 | 1       | -0.6968                  | 0.1104                   | 1.151                   | 0.3591                  | 0.2251                   | -0.006406                | -0.6843                | 0.5857                  |
| 712 | 1       | -0.4063                  | 0.1309                   | 1.281                   | -0.05039                | 0.005547                 | -0.5059                  |                        | 0.5262                  |
| 713 | 1       | -0.287                   | 1.23                     | 0.2607                  | 0.359                   | 0.2349                   | 0.1234                   | 0.2755                 | -0.6445                 |
| 714 | 1       | -0.2244                  | 0.5328                   | 0.5433                  | 0.5116                  | 0.6375                   | 0.586                    | 0.1081                 | -0.4419                 |
| 715 | 1       | -0.3725                  | 1.185                    |                         | 0.3234                  | -0.3506                  | 0.2079                   |                        | -1.38                   |
| 716 | 1       | -0.1254                  | 0.5218                   | 0.5023                  | 0.05059                 | 0.2765                   | 0.455                    | -1.453                 | -0.1329                 |
| 717 | 1       | -1.359                   | -0.9816                  | 0.1989                  | -0.002813               | -0.8669                  | -0.9384                  | -1.366                 | -0.3663                 |
| 718 | 1       | -0.6337                  | -0.5966                  | -0.1561                 | 0.9922                  | -1.222                   | -0.1934                  |                        | 0.5987                  |
| 719 | 1       | 0.2425                   | 0.6997                   | 0.3302                  | 0.3884                  | 0.004375                 | 0.1529                   | 0.685                  | 0.235                   |
| 720 | 1       | -0.4425                  | -0.3653                  | -0.2948                 | 0.03344                 | -0.5506                  | -0.8221                  | 1.29                   | -0.16                   |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | -1                       | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 721 | 1       | -0.6875                  | 0.1897                   | 0.2202                  | -0.3416                 | -0.6856                  | -0.8771                  | -0.385                 | -0.715                  |
| 722 | 1       | -0.3728                  | -0.04563                 | -0.3351                 | 0.02313                 | 0.2691                   | 0.3576                   | 0.3097                 | -0.1303                 |
| 723 | 1       | -0.2125                  | -0.2153                  | -0.2748                 | 0.7134                  | -0.6806                  | -0.1821                  |                        | 0.78                    |
| 724 | 1       | -0.9331                  |                          | 0.3646                  | 0.04281                 | -0.5112                  | 0.03727                  |                        | -0.4394                 |
| 725 | 1       | -0.3925                  | 0.9847                   | 0.6252                  | 0.4634                  | -0.3006                  | 0.5879                   |                        |                         |
| 726 | 1       | -0.1498                  | 0.1473                   | -0.2821                 | 0.2761                  | -0.1128                  | -0.1295                  | 0.1127                 | 0.1727                  |
| 727 | 1       | -0.575                   | 0.1922                   | 0.2527                  | -0.1991                 | 0.1169                   | 0.02539                  | -0.6025                | -0.1025                 |
| 728 | 1       | -0.5268                  | 0.3504                   | 0.9309                  | 0.9891                  | -1.435                   | -0.2164                  |                        |                         |
| 729 | 1       | -1.23                    | 0.4675                   | 0.178                   |                         | -0.3678                  |                          | -0.3872                | -0.3972                 |
| 730 | 1       | -1.458                   | -0.7409                  | -1.16                   | -1.562                  | 0.4237                   | -0.04773                 | -1.626                 |                         |
| 731 | 1       | -0.3025                  | 0.1147                   | 0.0852                  | -0.4766                 | 0.2294                   | -0.5121                  | 0.42                   | 0.39                    |
| 732 | 1       | -0.2084                  | -0.5212                  | -0.1907                 | 0.2976                  | -0.03648                 |                          | -1.676                 | 0.2341                  |
| 733 | 1       | -0.1825                  | 0.1447                   | 0.9352                  | -1.047                  | -0.06063                 | -0.3921                  |                        | -0.06                   |
| 734 | 1       | -0.5798                  |                          | 0.3979                  | -0.3439                 | -0.968                   | -1.069                   | -3.147                 | -0.7073                 |
| 735 | 1       | -0.1074                  | 0.2598                   | -0.09973                | 0.1885                  | -0.3155                  | 0.183                    | 0.5351                 | -0.08492                |
| 736 | 1       | 0.1872                   | -1.696                   |                         | 0.6831                  | 0.04906                  | 0.7676                   | 1.54                   | 0.7197                  |
| 737 | 1       | 0.8366                   | 0.7138                   | 0.1343                  | 0.7226                  | -0.5915                  | -0.253                   | -0.3409                | -0.5109                 |
| 738 | 1       | 0.5375                   | 0.6147                   | 0.6252                  | -0.1766                 | 0.3594                   | -0.09211                 | -0.9                   | -0.03                   |
| 739 | 1       | -0.06687                 | 0.09031                  | 0.01082                 | -0.5309                 | -0.175                   | -0.4065                  | -0.6444                | 0.9056                  |
| 740 | 1       | 0.2831                   | -0.1997                  | -0.5092                 |                         | 0.885                    | 1.104                    | 0.4056                 | 0.4556                  |
| 741 | 1       | 0.1056                   | -0.2072                  | 0.2033                  | 0.06156                 | 0.0475                   | -0.08398                 | -0.8319                | -0.03188                |
| 742 | 1       | 0.0575                   | 0.6147                   | 0.3752                  | -0.07656                | -0.3306                  | -0.8721                  | 0.23                   | 0.01                    |
| 743 | 1       | 0.1375                   | -0.1953                  | -0.1948                 | -0.3166                 | 0.009375                 | -0.4221                  | 1.4                    | 0.45                    |
| 744 | 1       | -0.04                    | -0.1828                  | 0.1877                  | 0.4859                  | 1.362                    | 1.51                     | 0.0225                 | -0.3175                 |
| 745 | 1       | 0.6338                   | -0.3191                  | -0.1486                 | 0.01969                 | 0.1656                   | -0.4559                  | -0.6337                | 0.1563                  |
| 746 | 1       | -0.3967                  | 0.08051                  | -0.529                  | 0.1393                  | 0.2752                   | 0.2037                   | 1.406                  | 0.1158                  |
| 747 | 1       | -0.455                   | 0.02219                  | -0.2573                 | 0.5909                  | -1.193                   | -0.7646                  |                        | -1.392                  |
| 748 | 1       | -0.8314                  | -1.204                   | -0.4937                 | 0.05453                 | -1.21                    | -1.151                   | 1.061                  | 0.6711                  |
| 749 | 1       | -0.7361                  | -1.239                   | -0.4584                 | -1.19                   | -0.2342                  | 0.0243                   | 0.5464                 | -1.354                  |
| 750 | 1       | -0.4751                  | -0.8579                  | 0.0126                  | -0.5892                 | -0.01322                 | 0.5753                   | 0.6874                 | -1.063                  |
| 751 | 1       | 0.2687                   | -1.794                   | -0.9236                 | -0.9654                 | 0.3305                   | 0.1291                   | 0.3612                 | 0.2912                  |
| 752 | 1       | 0.055                    | 0.5022                   | 0.1927                  | -0.1591                 | 0.1869                   | 0.2354                   | 0.0575                 | -0.1425                 |
| 753 | 1       | 0.3654                   | 0.6925                   | 1.183                   | 1.921                   | 0.5572                   | 0.4857                   | 0.6579                 | -0.07215                |
| 754 | 1       | 0.1742                   | 0.6714                   | -0.1681                 | -0.6298                 | 0.2161                   | 0.1946                   | 0.006719               | -0.7433                 |
| 755 | 1       | -0.1358                  | 0.3314                   | -0.08809                | 0.4302                  | 1.016                    | 0.1746                   | 0.05672                | -0.5933                 |
| 756 | 1       | -0.1375                  | -0.0003125               | -0.5598                 | 0.1784                  | 0.1744                   | -0.08711                 | 0.115                  | 0.255                   |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | -1                       | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 757 | 1       | -0.009609                | 0.5576                   | -0.6319                 | -0.6037                 | -0.2977                  |                          | -0.3471                | -0.1771                 |
| 758 | 1       | 0.6231                   | -0.7197                  | -0.5092                 | -0.3909                 | -0.035                   | 0.2935                   | 0.3256                 | 0.1656                  |
| 759 | 1       | 1.038                    | -1.045                   | -0.9948                 | 2.103                   | -0.6606                  | -0.9721                  | -1.37                  | 3.67                    |
| 760 | 1       |                          | -0.537                   | 0.03348                 | 1.252                   | 0.2377                   |                          | 1.118                  | -0.02828                |
| 761 | 1       | -0.305                   | -0.2678                  | 0.8327                  | -0.7791                 | -0.7931                  | 0.08539                  | -0.0225                | -0.3625                 |
| 762 | 1       | -0.4025                  | 0.2147                   | -0.1648                 | -0.5566                 | -1.171                   | -0.7221                  | 0.02                   | 0.02                    |
| 763 | 1       | -0.5562                  | -0.6591                  | -0.2186                 | 0.3097                  | -0.4744                  | 0.7641                   | 1.206                  | -0.9437                 |
| 764 | 1       | 0.4455                   | -0.2173                  | -0.03684                | 0.1214                  | -0.4227                  | -0.1741                  | 0.268                  | -0.692                  |
| 765 | 1       | -0.1958                  | 0.03141                  | -0.2181                 | 0.3002                  | -0.4539                  | -0.4654                  | -0.1033                | -0.2833                 |
| 766 | 1       | -0.3653                  | -0.1481                  | 0.6224                  | -0.7394                 | 0.1166                   | -0.5749                  | -1.343                 | 0.2672                  |
| 767 | 1       | 0.3475                   | -0.06531                 | 2.265                   | 1.053                   | 0.1694                   | 0.7379                   |                        | 1.29                    |
| 768 | 1       | 0.3472                   | 0.4744                   | 2.465                   | 1.993                   | 0.2691                   | 0.4876                   |                        | 1.56                    |
| 769 | 1       | -0.3925                  | -0.2753                  | -0.5748                 |                         | 1.019                    | -1.122                   |                        | -0.16                   |
| 770 | 1       | -0.1181                  | -0.5909                  | 1.02                    | -0.08219                | 0.2638                   | 0.4123                   | 0.1544                 | 0.004375                |
| 771 | 1       | 2.373                    | 1.12                     | -0.06918                | -0.06094                | -1.375                   | -0.6165                  | 0.02563                | -0.3044                 |
| 772 | 1       | 2.493                    | 2.79                     | 0.4008                  | 0.01906                 | 0.005                    | -0.3465                  | 0.5256                 | 1.696                   |
| 773 | 1       | -0.3375                  | 1.1                      | 0.2502                  | 1.248                   | -1.026                   | -0.09711                 |                        |                         |
| 774 | 1       | -0.025                   | 0.5222                   | 0.3927                  | 1.081                   | -0.09312                 | 0.5254                   |                        | 0.2375                  |
| 775 | 1       | -0.405                   | -0.4178                  | -0.1273                 | -0.3991                 | -0.02312                 | -1.285                   | -0.8325                | 0.4275                  |
| 776 | 1       | 1.035                    | 0.9527                   | 0.2832                  | 0.02141                 | 1.167                    | 0.4659                   | 0.298                  |                         |
| 777 | 1       | 0.6775                   | 1.725                    | 0.0952                  | -0.04656                | 0.7194                   | 0.8179                   | 0.2                    | -0.55                   |
| 778 | 1       | -0.2475                  | -0.9903                  | -0.8098                 | 0.2684                  | -0.1856                  | -0.1971                  | -0.035                 | 0.225                   |
| 779 | 1       | -0.005234                | 1.032                    | 0.3625                  | 0.4707                  | 0.5266                   | 1.265                    | -0.5527                | -0.5527                 |
| 780 | 1       | -0.00375                 | -0.3466                  | -0.6261                 | -0.8578                 | 0.1181                   | -0.5334                  |                        | -0.3213                 |
| 781 | 1       | 0.06336                  | 1.001                    | 0.05105                 | 1.329                   | 0.2752                   | 0.5238                   | 1.266                  | -0.2341                 |
| 782 | 1       | -0.3188                  | 0.1284                   | 0.5889                  | 0.5371                  | 0.473                    | 0.6216                   |                        | -0.1263                 |
| 783 | 1       | -0.3809                  | 0.3763                   | 0.2068                  | -0.03492                | 0.381                    | 0.02953                  | 0.6216                 | -0.1384                 |
| 784 | 1       | -0.4757                  | -0.5885                  | -0.01803                | 0.9202                  | 0.2462                   | -0.3053                  | 1.047                  | 0.4368                  |
| 785 | 1       | -0.5125                  | 0.7847                   | -0.004805               | 0.3434                  | -0.7106                  | 1.228                    |                        | 0.81                    |
| 786 | 1       | -0.0175                  | -0.1603                  | -0.2698                 | -0.2116                 | -1.346                   | -0.9271                  | 0.225                  | -0.375                  |
| 787 | 1       | -0.1467                  | -0.3695                  | -0.239                  | -0.07078                | -0.004844                | -0.09633                 | -0.2142                | -0.3442                 |
| 788 | 1       | -1.105                   | -0.1175                  | -0.05699                | 0.8912                  | -0.5328                  | -0.1543                  |                        | 0.04781                 |
| 789 | 1       | 0.0975                   | 0.7447                   |                         | 0.2634                  | 0.5594                   | 0.7679                   | 0.1                    | -0.28                   |
| 790 | 1       | -0.5425                  | 0.1047                   | 0.3652                  | -0.03656                | -0.6106                  | 0.06789                  | -0.55                  | -0.08                   |
| 791 | 1       | -0.3202                  | -0.533                   | -0.4025                 | 0.2957                  | -0.2284                  | -0.2998                  | -0.8177                | 0.2823                  |
| 792 | 1       | -0.3652                  | -0.488                   | -1.007                  | -0.2592                 | -0.6633                  | -0.4848                  | -0.2227                | -0.4127                 |



Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 793 | 1       | -1.556                   | -1.719                   | -1.739                  | -0.5505                 | 0.9355                   |                          | 2.786                  | -0.2139                 |
| 794 | 1       | -0.8175                  | -0.2503                  | -1.39                   | -0.8816                 | 0.2344                   | -0.3271                  | 0.315                  | -0.125                  |
| 795 | 1       | -0.3825                  | -0.9953                  | -0.2348                 | 0.2634                  | -0.3306                  | -0.2021                  | 0.1                    | -0.15                   |
| 796 | 1       | 0.2938                   | 0.4709                   | 0.2714                  |                         | -0.01438                 | -0.3159                  | 0.1362                 | 0.4962                  |
| 797 | 1       | -0.1925                  | -0.1253                  | 0.1152                  | -0.1466                 | 0.2794                   | 0.07789                  | -1.07                  | 0.03                    |
| 798 | 1       | -0.6997                  | -1.403                   | -0.832                  | -0.6738                 | -0.2278                  | 0.0007031                | -0.3772                | -0.4972                 |
| 799 | 1       | -0.7614                  | -1.164                   | -0.3137                 | 0.5445                  | 0.1605                   |                          | -0.008906              | 0.02109                 |
| 800 | 1       | -0.3461                  | 0.3811                   | 0.0816                  | 0.2198                  | -0.7442                  | -0.005703                | -0.1536                | 0.1264                  |
| 801 | 1       | -0.2512                  | -1.274                   | -0.07355                | -0.3953                 | 0.000625                 | -0.1009                  | 0.1212                 | -0.07875                |
| 802 | 1       | 0                        | -0.4328                  | -0.8323                 | -0.3141                 | -0.1281                  | -0.4396                  | 1.242                  | -0.0675                 |
| 803 | 1       | -0.7825                  | -1.645                   | -0.1148                 | -0.05656                | 0.2894                   | -0.2421                  | -0.2                   | -0.72                   |
| 804 | 1       | -0.8955                  | -0.7584                  | 0.4521                  | -0.009609               | -0.02367                 | -0.7252                  | -1.313                 | -0.243                  |
| 805 | 1       | -0.01695                 | -0.2498                  | -0.9293                 | -0.281                  | 0.3249                   | -0.06656                 | 0.4255                 | -0.1745                 |
| 806 | 1       | -0.0625                  | 0.03469                  | -1.045                  |                         | 0.1194                   | -0.2521                  | -2.65E-09              | -0.11                   |
| 807 | 1       | -0.2247                  | 0.1425                   | -0.357                  | 0.4212                  | 0.1572                   | -0.004297                | -1.032                 | -0.1122                 |
| 808 | 1       | -0.1069                  | 0.3903                   | -0.2292                 | 0.2791                  | -0.115                   | -0.04648                 | -0.3344                | -0.2944                 |
| 809 | 1       | 0.2675                   | 0.7147                   | -0.8048                 | 0.1534                  | -0.2906                  | -0.1721                  | -0.2                   | -0.2                    |
| 810 | 1       | -0.1597                  | -0.0825                  | -0.03199                | -1.324                  | 0.8022                   | 0.0007031                | -0.6972                | -0.3172                 |
| 811 | 1       | -0.2014                  | 0.2058                   | 0.006289                | 0.5445                  | -0.5395                  | -1.191                   | -0.9689                | -0.1389                 |
| 812 | 1       | -0.2237                  | 0.2834                   | -0.05605                | -0.7078                 | 0.04812                  | -0.6634                  | 1.449                  | 0.1287                  |
| 813 | 1       | -0.6075                  | -0.1303                  | 0.1802                  | 0.9984                  | -0.4256                  | -1.027                   |                        |                         |
| 814 | 1       | -0.3664                  | -0.1692                  | -0.06871                | 0.2795                  | 0.1855                   | 0.364                    | 1.676                  | 0.5261                  |
| 815 | 1       | -0.0075                  | 0.2597                   |                         | 0.8384                  | 0.2644                   | 0.4729                   |                        | 0.705                   |
| 816 | 1       | -0.3819                  | -0.03469                 | -0.05418                | -0.2759                 | 0.22                     | -0.5015                  |                        | -0.7094                 |
| 817 | 1       | 0.1125                   | 0.4397                   | -0.0198                 | -0.6516                 | -0.4656                  | -0.7171                  |                        | -0.195                  |
| 818 | 1       | -0.5694                  | -0.5322                  | -0.4517                 | -0.1334                 | 0.1925                   | -0.409                   |                        | -0.6169                 |
| 819 | 1       | 0.1363                   | -0.1466                  | 0.03395                 | 0.8122                  | 1.218                    | 0.3466                   | -0.3113                | -0.3113                 |
| 820 | 1       | -0.4451                  | -0.02791                 | 0.0226                  | -1.069                  | 0.3268                   | -0.1747                  | 0.7574                 | -0.3326                 |
| 821 | 1       | -0.8314                  | -2.114                   | -0.7037                 | -0.7855                 | -0.3395                  | -0.961                   |                        | -1.409                  |
| 822 | 1       | -0.2225                  | -0.2753                  | -0.2448                 | 0.03344                 | 0.1194                   | 0.08789                  | -0.53                  | -0.05                   |
| 823 | 1       | 0.02242                  | 0.3196                   | 0.04012                 | -0.01164                | 0.0843                   | -0.4772                  | 0.08492                | -0.1351                 |
| 824 | 1       | -0.05687                 | 0.8303                   | 0.4208                  | -0.4209                 | 0.035                    | 0.3135                   | -0.3144                | -0.6744                 |
| 825 | 1       | 0.1739                   | 0.5411                   |                         | -0.3401                 | -0.5042                  | 0.1643                   | 0.1364                 | -0.2436                 |
| 826 | 1       | -0.4195                  | 0.1777                   | -0.4018                 | -0.8935                 | 0.2624                   | -0.4091                  | 0.743                  | 0.02305                 |
| 827 | 1       | 0.1469                   | 0.5241                   | -0.2454                 | -0.9572                 | 0.1987                   | -0.8927                  | -0.2506                | -0.6106                 |
| 828 | 1       | -0.2563                  | 0.4508                   | 0.001348                | 0.02959                 | 0.01553                  | 0.07404                  | 1.646                  | -0.1338                 |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 829 | 1       | -0.1142                  | -0.587                   | -0.04652                | -0.2683                 | 0.07766                  | 0.4262                   | -0.05172               | -0.1017                 |
| 830 | 1       | -0.6895                  | 0.8877                   | 0.7582                  | -0.04359                | -0.2977                  | 1.231                    |                        | -0.327                  |
| 831 | 1       | -0.4041                  | -0.07695                 | 0.9436                  | -1.078                  | -0.1823                  | -0.4437                  |                        | -0.01164                |
| 832 | 1       | -0.04805                 | 0.9491                   | 0.4396                  | 0.05789                 | 0.5138                   |                          | -0.3555                | 0.4245                  |
| 833 | 1       | -0.47                    | 0.8372                   | -0.7323                 | 0.5059                  | -0.2181                  | 0.04039                  | 0.4625                 | -0.0275                 |
| 834 | 1       | -0.6009                  | -0.4637                  | -0.09316                | -0.4949                 | 0.231                    | -1.23                    | -0.9784                | -0.9784                 |
| 835 | 1       | -0.4656                  | 0.4516                   | 0.3621                  | -0.03969                | 0.1263                   | 1.775                    | -0.08312               | -0.6631                 |
| 836 | 1       | -0.1286                  | 0.1986                   | -0.2509                 | 0.1573                  | 0.08328                  | 0.001797                 | -0.006094              | -0.5261                 |
| 837 | 1       | -0.0168                  | 0.2704                   | 0.1109                  | -0.1709                 | 0.2151                   | -0.2064                  | -1.084                 | 0.3257                  |
| 838 | 1       | -0.6725                  | -1.145                   | -0.4048                 | -0.7966                 | -0.05062                 | -0.3521                  | -0.61                  | -0.36                   |
| 839 | 1       | -0.4725                  | -0.2053                  | -0.3048                 | 0.2734                  | -0.02063                 | -0.7321                  | 0.02                   | 0.06                    |
| 840 | 1       | -0.8974                  | -1.04                    | -0.2397                 | 0.3485                  | -0.3155                  | -0.627                   |                        | -0.05492                |
| 841 | 1       | -0.6675                  | -0.1003                  | -0.3898                 | 0.2884                  | -0.1756                  | -0.4571                  | 0.585                  | -0.295                  |
| 842 | 1       | -0.6025                  | -0.5653                  | -0.3348                 | -1.087                  | -0.4406                  | -0.9221                  | 0.79                   | 0.02                    |
| 843 | 1       | -0.5482                  | -0.571                   | -0.4105                 | -0.5023                 | -0.4563                  | 0.002187                 | -0.005703              | -0.6857                 |
| 844 | 1       | -0.5222                  | -1.145                   | -0.3645                 | 0.1437                  | -0.3803                  | -0.5118                  | -0.1497                | -0.3197                 |
| 845 | 1       | -0.3252                  | -0.598                   | -0.2575                 | 0.3208                  | -0.4333                  | -0.3648                  | -0.08266               | 0.1073                  |
| 846 | 1       | -0.6447                  | -0.0475                  | -0.06699                | 0.5013                  | -0.2128                  | -0.2943                  | -0.1822                | 0.6978                  |
| 847 | 1       | -0.05125                 | 0.4859                   | -0.4036                 | 0.4047                  | 0.000625                 | 0.2591                   | -0.3088                | 0.5112                  |
| 848 | 1       | -0.3842                  | -0.497                   | -0.04652                | -0.8883                 | -0.7123                  | -0.7938                  | -1.242                 | -0.1517                 |
| 849 | 1       | 0.2375                   | 0.3847                   | 0.2952                  | -0.07656                | 0.3294                   | -0.8621                  |                        | 0.17                    |
| 850 | 1       | -0.2725                  | -0.2353                  | 0.1652                  | -0.2766                 | 0.1494                   | -0.4321                  | 0.46                   | 0.17                    |
| 851 | 1       | -0.525                   | -0.8078                  | -0.4073                 | -0.3191                 | -0.6331                  | -0.4546                  | 0.3375                 | 0.0275                  |
| 852 | 1       | -0.5425                  | -0.5053                  | 0.0952                  | 0.003438                | -0.2106                  | -0.7321                  | -0.48                  | 0.14                    |
| 853 | 1       | -0.1137                  | 0.3734                   | -0.1261                 | -0.9678                 | 0.4281                   | -0.9534                  | -1.231                 | -0.3613                 |
| 854 | 1       | -0.1259                  | -0.00875                 | -0.1982                 | -0.42                   | 0.2259                   | -0.7955                  | -1.703                 | -0.1534                 |
| 855 | 1       | -0.1037                  | 0.06344                  | 0.1639                  | -1.388                  | 0.3481                   | -0.6434                  | -0.5312                | -0.7312                 |
| 856 | 1       | 0.09375                  | 0.4909                   | 0.1114                  | 0.1997                  | 0.1556                   | -0.08586                 | -0.1238                | -0.01375                |
| 857 | 1       | -0.3025                  | 0.8047                   | 0.1752                  | -0.1966                 | -0.2106                  | 0.4279                   |                        | -0.63                   |
| 858 | 1       | -0.7525                  | -0.3953                  | -0.2748                 | 0.1534                  | -0.7606                  | -0.5821                  | 0.66                   | -0.79                   |
| 859 | 1       | -0.4244                  | -0.1872                  | -0.6467                 | 0.06156                 | -0.1925                  | -0.01398                 | 1.658                  | -0.9819                 |
| 860 | 1       | -0.2775                  | -0.5903                  | -0.1998                 | -0.1716                 | 0.3344                   | -0.7271                  | -0.495                 | -0.415                  |
| 861 | 1       | -0.3575                  | -0.0003125               | -0.0198                 | -0.1716                 | 0.1244                   | -0.08711                 | 0.285                  | 0.025                   |
| 862 | 1       | -0.1269                  | 0.4403                   | 0.1008                  | -0.2009                 | -0.035                   | 0.02352                  | 0.8456                 | -0.5344                 |
| 863 | 1       | -0.2253                  | -0.7081                  | -0.02762                | 0.000625                | 0.5866                   | -0.7749                  | 0.7372                 | -0.2928                 |
| 864 | 1       | -0.3175                  | -0.3403                  | -0.2998                 | -0.1516                 | -0.2856                  | -0.8271                  | -0.195                 | -0.515                  |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 865 | 1       | -0.1814                  | -0.07422                 | 0.05629                 | -0.005469               | -0.2595                  | -0.621                   | -0.3889                | 0.03109                 |
| 866 | 1       | -0.2347                  | 0.0825                   | -0.167                  | 0.1012                  | 0.08719                  | -1.014                   | -0.1222                | -0.7822                 |
| 867 | 1       | -0.1416                  | 0.5556                   | 0.2661                  | 0.2544                  | 0.3403                   | 1.419                    | 0.2109                 | -0.2191                 |
| 868 | 1       | -0.03937                 | 0.5578                   | 0.1583                  | -0.3734                 | 0.3925                   | 0.331                    | -0.2969                | -0.2969                 |
| 869 | 1       | -0.4497                  | 0.3875                   |                         | 0.2162                  | 0.1322                   | 0.0007031                | 0.03281                | -0.1172                 |
| 870 | 1       | -0.4297                  | 0.5075                   | -0.232                  | -0.05375                | -0.2378                  | 0.4607                   |                        | -0.6872                 |
| 871 | 1       | -0.2809                  | 0.2263                   | 0.6168                  | -0.5549                 | 0.231                    | -0.01047                 | -0.06836               | -0.06836                |
| 872 | 1       | -0.2162                  | -0.4891                  | -0.5886                 | -0.3303                 | -0.1944                  | 0.7559                   | -0.08375               | -0.3037                 |
| 873 | 1       | -0.7525                  | -0.7953                  | -0.4148                 | -0.2666                 | -0.08062                 | 0.4379                   | 0.92                   | -0.31                   |
| 874 | 1       | -0.523                   | 0.2241                   | -0.5754                 | 0.6929                  | -0.3512                  | -0.03266                 | 0.7595                 | -0.1805                 |
| 875 | 1       | -0.545                   | 0.03219                  | 0.1827                  | -0.4391                 | -0.3331                  | -0.2746                  | 1.608                  | -0.9425                 |
| 876 | 1       | -0.4225                  | -0.2753                  | -0.2248                 | 0.2534                  | 0.7994                   | -0.01211                 | -0.36                  | -0.57                   |
| 877 | 1       | -0.1142                  | -0.127                   | -0.2465                 | -0.7783                 | 1.338                    |                          | 0.3783                 | -0.3217                 |
| 878 | 1       | 0.0075                   | -0.5153                  | -0.1548                 | -1.387                  | 1.119                    | 0.2779                   | 0.23                   | 0.03                    |
| 879 | 1       | -0.4587                  | -0.02156                 | 0.2689                  | -0.4128                 | 0.5431                   | -0.5084                  | 0.04375                | -0.5762                 |
| 880 | 1       | -0.1977                  | 0.2895                   | -1.02E-11               | -0.9418                 | 0.8242                   | -0.4973                  | -0.8852                | -0.1652                 |
| 881 | 1       | 0                        | 0.2972                   | -0.1723                 | -0.4141                 | 0.7419                   | -0.2996                  | -0.1275                | -0.5575                 |
| 882 | 1       | -0.2564                  | -0.1192                  | -0.09871                | 0.2695                  | 0.4855                   | 0.504                    | -0.1439                | -0.5139                 |
| 883 | 1       | -0.5352                  | 0.222                    | 0.1025                  | 0.8108                  | 0.2767                   | -0.1048                  |                        | -0.3427                 |
| 884 | 1       | 0.04563                  | 0.1828                   | -0.1567                 | 0.3016                  | 0.6175                   | -0.244                   | -0.1719                | 0.008125                |
| 885 | 1       | -0.2302                  | -0.413                   | 0.1575                  |                         | 0.1916                   | -0.3698                  | 2.152                  |                         |
| 886 | 1       | -0.3814                  | -0.5442                  | 0.06629                 | 0.2845                  | 0.2505                   | -0.241                   | -0.1989                | 0.3111                  |
| 887 | 1       | -0.61                    | 0.04719                  | 0.0877                  | 0.4259                  | -0.4681                  | 0.7304                   | -0.6475                | -0.6975                 |
| 888 | 1       | -0.7737                  | -1.277                   | 0.5239                  | 0.1822                  | 0.3981                   | 0.01664                  | -0.3213                | -0.2513                 |
| 889 | 1       | -0.4389                  | -0.3017                  | 1.019                   | 0.187                   | 0.493                    | 0.1115                   | -0.3764                | -0.1764                 |
| 890 | 1       | -0.4684                  | 0.3388                   | -0.07066                | 0.1676                  | 0.1535                   | 0.05203                  | -0.07586               | -0.1159                 |
| 891 | 1       | -0.1442                  | -0.497                   | -0.1265                 | 0.2117                  | -0.05234                 | -0.2638                  | 0.5283                 | -0.01172                |
| 892 | 1       | -0.1236                  | 0.3436                   | 0.0341                  | 0.6323                  | 0.03828                  | 0.0368                   | -0.3311                | 0.2289                  |
| 893 | 1       | 0.009844                 | -0.373                   | 0.4075                  | -0.5942                 | -0.02828                 | -0.3098                  | -0.6377                | 0.2223                  |
| 894 | 1       | -0.38                    | -0.3428                  |                         | -0.5441                 | 0.3919                   | -0.5796                  | 1.813                  | -0.2475                 |
| 895 | 1       | -0.4612                  | -0.2541                  | 0.5264                  | -0.4153                 | -1.369                   | -0.07086                 | -1.179                 | -0.3387                 |
| 896 | 1       | -0.01727                 | 0.4699                   | 0.4504                  | -1.131                  | 0.3146                   | -0.8969                  | 0.01523                | 0.04523                 |
| 897 | 1       | -0.4336                  | -1.116                   | 0.5241                  |                         | 0.03828                  | 0.1668                   | 0.1489                 | -0.1911                 |
| 898 | 1       | 0.1286                   | -0.9142                  | 1.196                   | -0.8455                 | 0.6605                   | -0.221                   | -1.089                 | -0.5689                 |
| 899 | 1       | -0.3625                  | -1.035                   | -0.3448                 | 0.3534                  | 0.6894                   | 0.2279                   | -0.39                  | -0.26                   |
| 900 | 1       | -1.302                   | -0.08531                 | -0.2348                 | -0.1466                 | -0.1106                  | 0.2779                   | 1.01                   | -1.24                   |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 901 | 1       | -0.6839                  | 0.5333                   | -0.04621                | -0.338                  | -0.302                   | -0.07352                 |                        | -0.8414                 |
| 902 | 1       | -0.05141                 | -0.2342                  | -0.3437                 | -0.4455                 | 0.5205                   | 0.259                    | -0.8789                | -0.1689                 |
| 903 | 1       | -0.4837                  | -0.3866                  | -1.046                  | 0.1722                  | 0.02812                  | 0.05664                  | -0.3013                | -0.9213                 |
| 904 | 1       | -0.4031                  | -0.2659                  | -0.6954                 | 0.5828                  | -0.1113                  |                          | 0.4494                 | -0.6506                 |
| 905 | 1       | -0.5525                  | -0.5153                  | 0.7552                  | 0.7834                  | -0.6106                  | -0.8021                  | 0.8                    | -0.73                   |
| 906 | 1       | -0.3169                  | 0.3003                   | 0.1308                  | -0.6709                 | -0.225                   | -1.286                   | 0.2156                 | -0.8744                 |
| 907 | 1       | -0.7306                  |                          | -0.3929                 | -0.5447                 | -0.4687                  | -1.46                    | -0.2081                | -1.208                  |
| 908 | 1       | -0.1742                  | -0.407                   | -0.006523               | -0.1083                 | 0.4177                   | -0.07383                 | -0.3317                | -0.3317                 |
| 909 | 1       | -0.3244                  | 0.2928                   | -0.2267                 | 1.022                   | -0.1025                  | 0.266                    |                        | -0.1819                 |
| 910 | 1       | 0.2738                   | 0.9509                   | -0.2786                 | -0.3803                 | 1.876                    | 0.7041                   | -2.884                 | -0.1238                 |
| 911 | 1       | -0.1666                  | 0.5905                   | -0.2689                 |                         | -0.6548                  | 0.1038                   |                        | -0.07414                |
| 912 | 1       | -0.385                   | -0.2678                  |                         | -1.089                  | -0.9631                  | 0.3354                   | -0.2425                | 0.2475                  |
| 913 | 1       | 0.425                    | 0.9622                   | 0.4927                  | 0.2009                  | -0.5331                  | -0.4546                  | -0.1225                | -0.3625                 |
| 914 | 1       | -0.2125                  | -0.3653                  | -0.4548                 | -0.1666                 | -0.000625                | 0.1179                   | -0.09                  | -0.56                   |
| 915 | 1       | -0.1053                  | -0.1081                  | -0.7376                 | 0.000625                | -0.05344                 | -0.1749                  |                        | 0.1572                  |
| 916 | 1       | -0.1742                  | -1.337                   | -0.3965                 | -0.8883                 | 0.3077                   | 0.05617                  | -0.4917                | -0.6417                 |
| 917 | 1       | 0.1475                   | 0.1147                   | 0.5752                  | -0.5866                 | 0.3994                   | -0.2021                  | -2.36E-08              | 0.03                    |
| 918 | 1       | -0.6147                  | -0.1475                  | -1.217                  | -0.9287                 | 0.3672                   |                          | -0.9722                | -0.3522                 |
| 919 | 1       | -0.3942                  | -0.677                   | -0.6365                 | -0.1883                 | 0.1877                   | 0.1462                   | 0.7383                 | -0.4317                 |
| 920 | 1       | -0.08008                 | 0.1871                   | -0.4324                 | -0.4441                 | 0.3618                   | -0.5497                  |                        | 0.1824                  |
| 921 | 1       | -0.1125                  | 0.3647                   | 0.6552                  | -0.4166                 | 0.02938                  | -1.322                   | 0.79                   | -0.15                   |
| 922 | 1       | 0.1433                   | -0.02953                 |                         |                         | -0.4548                  | -1.796                   | 1.386                  | -0.6842                 |
| 923 | 1       | 0.2747                   | 0.001875                 | -1.018                  | -0.2694                 | -0.1034                  | -0.4249                  | -0.7528                | 0.4572                  |
| 924 | 1       | 0.2434                   | -0.5194                  | -0.5389                 | 0.1994                  | -0.4647                  | -0.09617                 |                        | -0.1341                 |
| 925 | 1       | 0.2797                   | -0.5031                  | -0.2926                 | 0.2756                  | 0.3716                   | 0.3301                   | -0.3678                | 0.2122                  |
| 926 | 1       | -0.2003                  | -0.8331                  | -0.1226                 | -0.06437                | -0.8784                  | 0.01008                  | -0.3078                | 0.1222                  |
| 927 | 1       | 0.1123                   | 0.6595                   | -4.95E-12               | -0.6018                 | -0.9258                  | -0.2473                  | -1.235                 | 0.0948                  |
| 928 | 1       | 0.2475                   | 0.7347                   | -0.5848                 | 0.7334                  | 0.1794                   | 1.138                    | -2.65E-09              | 0.15                    |
| 929 | 1       | 0.6375                   | 0.9647                   | -0.1848                 | 0.2134                  | 0.1694                   | 0.05789                  | -0.23                  | -0.08                   |
| 930 | 1       | -0.2725                  | -0.7553                  | -0.8748                 | -0.09656                | -0.1506                  | -0.08211                 | -0.49                  | -0.07                   |
| 931 | 1       | 0                        | 0.5172                   | -0.7523                 | -0.2041                 | -0.3481                  |                          | -1.138                 | -0.1375                 |
| 932 | 1       | -0.6931                  | -0.8359                  | -0.6054                 | -1.127                  | 0.1587                   | -0.2027                  | 0.8194                 | -0.6306                 |
| 933 | 1       | -0.3751                  | 0.7921                   | 0.002598                | 0.5008                  | 0.5968                   | 0.3853                   | -0.1126                | -0.0326                 |
| 934 | 1       | -0.3425                  | 0.5947                   | 0.005195                | 0.1634                  | -0.3706                  | -0.04211                 | 0.08                   | -0.71                   |
| 935 | 1       | 0.3901                   | 0.1973                   | -0.2322                 | 1.036                   | -0.01805                 | -0.1095                  | 0.1926                 | -0.04742                |
| 936 | 1       | 0.1363                   | -0.3366                  | -0.7861                 | -0.2278                 | 0.1981                   | 0.2866                   | -0.5913                | 0.1087                  |

Table 1

|     | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|-----|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|     |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 937 | 1       | 0.2289                   | -0.1339                  | -0.3334                 | 0.4648                  | 0.3208                   | -0.0107                  | -0.8786                | 0.06141                 |
| 938 | 1       | 0.6091                   | 0.3862                   | -1.443                  | 0.465                   | 0.08094                  | -0.2605                  | -0.7284                | 0.2216                  |
| 939 | 1       | 0.3725                   | -0.7203                  | 0.0502                  | 0.1484                  | 0.2144                   |                          | -0.355                 | 0.375                   |
| 940 | 1       | 0.9375                   | 0.1747                   | -0.7248                 | 0.2734                  | 0.06938                  | -0.3621                  | -0.04                  | -0.19                   |
| 941 | 1       | 1.158                    | -1.755                   | -0.2848                 | 0.4934                  | -0.05062                 |                          | 0.54                   | 0.72                    |
| 942 | 1       | 0.7755                   | 0.1827                   | 0.003164                | -0.2286                 | -0.2927                  | -0.8241                  |                        | 0.278                   |
| 943 | 1       | 0.3936                   | -0.2292                  | -0.3287                 | 0.5296                  | 0.4455                   | 0.444                    | -0.4539                | -0.3839                 |
| 944 | 1       | 0.8586                   | -0.3342                  | 0.1063                  | 0.06453                 | 0.4205                   | -0.371                   | -0.7589                | 0.02109                 |
| 945 | 1       | 1.21                     | -1.153                   | -0.2425                 | -0.1843                 | 0.3216                   | 0.2402                   | 0.03227                | -0.6577                 |
| 946 | 1       | 1.568                    | -0.1653                  | 0.3552                  | 0.2134                  | 0.4794                   | 0.5279                   | 0.42                   | -0.47                   |
| 947 | 1       | 0.3075                   | -1.625                   | -0.6648                 | -0.7666                 | 0.5494                   | -1.142                   |                        | -0.46                   |
| 948 | 1       | -0.1475                  | -0.0003125               | -0.3498                 | 0.1084                  | 0.2744                   | -0.2771                  | 1.115                  | -0.895                  |
| 949 | 1       | 0.6475                   | -0.2653                  | -0.4148                 |                         | 0.8394                   |                          | -0.15                  | -0.52                   |
| 950 | 1       | 0.5186                   | -0.6942                  | -0.7137                 | 0.1045                  | 0.7405                   | 0.06898                  | -0.1589                | -0.2489                 |
| 951 | 1       | 0.9236                   | -0.1492                  | -0.7687                 | 0.04953                 | -0.2345                  | -0.106                   | 0.9261                 | 0.5761                  |
| 952 | 1       | 0.7775                   | 0.06469                  | -0.4548                 | 0.1634                  | 0.8794                   | 0.8079                   | 1.43                   | 0.15                    |
| 953 | 1       | 0.8319                   | 0.06906                  | -0.7004                 | 0.2578                  | 0.3237                   | 0.6923                   | 0.3244                 | -0.07563                |
| 954 | 1       | 1.173                    | 1.21                     | -0.5298                 | 0.1184                  | 0.09438                  | -0.8671                  | 0.485                  | 0.095                   |
| 955 | 1       | 1.253                    | -0.6803                  | -0.1998                 | -0.5816                 | 1.124                    | -1.427                   |                        | 0.765                   |
| 956 | 1       | 0.3975                   | 0.07469                  | -0.3748                 | 0.5134                  | 0.5194                   | 0.1679                   | -0.09                  | -0.31                   |
| 957 | 1       | 0.3947                   | -0.2881                  | -1.208                  | 0.000625                | 0.6266                   | 0.4451                   | 0.1372                 | -0.6828                 |
| 958 | 1       | 0.8636                   | 0.1808                   | -0.7787                 | -0.6605                 | 0.03547                  | 0.354                    | 0.7761                 | 0.006094                |
| 959 | 1       | 0.8538                   | 0.4509                   | -0.4186                 | -0.02031                | 0.1456                   | 0.8141                   | 0.6462                 | -0.2538                 |
| 960 | 1       | 0.5034                   | -0.4194                  |                         | -0.000625               | 0.5553                   | 0.8538                   | 1.016                  | 0.09594                 |
| 961 | 1       | 0.5375                   | -0.3853                  | -1.185                  | -0.4366                 | 0.8894                   | 0.7979                   |                        | 0.29                    |
| 962 | 1       | 0.6528                   | -0.6                     |                         | -0.1912                 | 0.7547                   | 0.5432                   | 0.4253                 | -0.3047                 |
| 963 | 1       | 1.024                    | -0.9286                  | -0.3481                 | -0.4898                 | 0.9961                   | 0.6246                   | 1.327                  | -0.3333                 |
| 964 | 1       | 0.7005                   | 0.2777                   | -0.6918                 | 0.1864                  | 1.162                    | -0.4409                  |                        | 0.133                   |
| 965 | 1       | 0.5788                   |                          | -1.094                  | -1.025                  | 0.000625                 | -0.06086                 |                        | -1.109                  |
| 966 | 1       | 0.8269                   | -0.3859                  | -0.7254                 | -0.3572                 | 0.2587                   | 0.3873                   | 0.009375               | -0.1406                 |
| 967 | 1       | 1.118                    | 0.1347                   |                         | 0.1634                  | 0.2294                   | 0.6379                   | 0.43                   | -3.85E-09               |
| 968 | 1       | 1.111                    | 0.348                    | -0.3114                 | 0.5568                  | 0.4227                   | 0.7913                   | 0.7734                 | -0.006641               |
| 969 | 1       | 1.103                    | -1.08                    | -0.9892                 | 0.4791                  | -0.125                   | 0.5435                   | 0.6956                 | -0.08438                |
| 970 | 1       | 0.7634                   | 0.1105                   | -0.3189                 | 0.0993                  | -0.2448                  | 0.4838                   | 0.8959                 | -0.05414                |
| 971 | 1       | 0.4214                   | -1.321                   | -0.9409                 | -0.4727                 | -0.5367                  | -1.018                   | 0.1839                 | -0.3461                 |
| 972 | 1       | 0.2724                   | -0.3204                  | -1.02                   | -1.282                  | -0.6357                  | 0.1128                   | 0.9949                 | 0.06488                 |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 973  | 1       | 0.3665                   | -0.6463                  | -1.026                  | -1.048                  | -0.7216                  | -0.1631                  | 1.239                  | -0.0902                 |
| 974  | 1       | 0.002656                 | -2.29                    | -0.7496                 | -0.3614                 | 0.3845                   | -0.107                   | 0.5652                 | 1.505                   |
| 975  | 1       | 1.618                    | -1.355                   | -0.2148                 | 0.01344                 | 0.3494                   | 0.8279                   | 0.74                   | 1.59                    |
| 976  | 1       | 0.5025                   | -0.6003                  | -1.1                    | -0.7016                 | 0.5544                   | -0.2171                  | 2.285                  | -0.235                  |
| 977  | 1       | 0.4763                   | -1.237                   | -0.7461                 | -0.5378                 | 0.9681                   | -0.02336                 | 0.6987                 | -0.07125                |
| 978  | 1       | 0.2102                   | -2.023                   | -0.3321                 | -1.084                  | 0.252                    | 0.5105                   |                        | 0.9827                  |
| 979  | 1       | 0.0625                   | -0.9203                  | -0.8298                 | -0.3116                 | 0.5044                   | -0.6571                  | 0.465                  | -0.515                  |
| 980  | 1       | 1.384                    |                          | -0.4279                 | -0.4097                 | 0.1963                   | 0.5648                   |                        |                         |
| 981  | 1       | -0.6925                  | 0.4947                   | -0.6748                 | 0.2434                  | -0.5306                  | 0.4079                   | -1.22                  | -3.85E-09               |
| 982  | 1       | -0.6132                  | -0.2561                  |                         | 1.173                   | 0.05863                  | 0.1371                   |                        |                         |
| 983  | 1       | -0.1525                  | -0.3053                  | -0.5548                 | -0.7266                 | -0.06062                 | 0.1179                   | -0.28                  | -0.02                   |
| 984  | 1       | -0.4466                  | -0.07937                 | 0.04113                 | 0.2594                  | -0.9847                  | -0.5462                  | -0.01406               | 0.1259                  |
| 985  | 1       | -0.3809                  |                          |                         | -0.495                  | -1.509                   | -0.1805                  |                        | -0.1884                 |
| 986  | 1       | 0.4234                   | 0.1505                   | -0.6089                 | -0.1907                 | -0.6448                  | -0.3262                  |                        | 0.04586                 |
| 987  | 1       | 0.93                     | 1.347                    |                         |                         | -0.6881                  | -0.1096                  |                        | 0.1225                  |
| 988  | 1       | -0.0375                  | 0.6097                   | 0.1302                  | 0.7984                  | -0.3556                  | 0.09289                  | -0.465                 | -0.115                  |
| 989  | 1       | -0.0225                  | 0.4747                   | -0.3648                 | 0.2634                  | 0.1794                   | -0.6821                  | 0.08                   | 1.46                    |
| 990  | 1       | 0.39                     | 0.1972                   | 0.3277                  | 0.2059                  | -1.058                   | -0.5396                  | -0.7475                | 0.1625                  |
| 991  | 1       | 0.07881                  | 0.426                    | 0.006504                |                         | -1.009                   | 0.3492                   | -1.109                 | 0.3813                  |
| 992  | 1       | -0.2778                  | -1.241                   | 0.1499                  | -0.6119                 | -0.3659                  | 0.2126                   | -0.02531               | 0.1747                  |
| 993  | 1       | -0.4412                  | -0.3541                  | 1.716                   | 0.1247                  | 0.000625                 | 0.2691                   |                        | 0.1812                  |
| 994  | 1       | -0.1225                  | 0.07469                  | -0.5048                 | -0.4166                 | -0.5906                  | 1.458                    |                        | -3.85E-09               |
| 995  | 1       | -0.1375                  | -0.0003125               | -0.2498                 | -1.182                  | -0.3656                  | -0.3871                  | -0.745                 | -1.115                  |
| 996  | 1       | 0                        | 0.3972                   | 0.5977                  | -1.554                  | -0.7981                  | -0.2696                  | -0.1775                | 1.042                   |
| 997  | 1       | -0.08453                 | 0.1827                   |                         | 0.4314                  | -0.2427                  | 0.3359                   | 0.288                  | -0.122                  |
| 998  | 1       | -0.2025                  | -0.1753                  | -0.9148                 | -0.3166                 | -0.4506                  | -0.4821                  | -0.49                  | -0.51                   |
| 999  | 1       | -0.1669                  | -1.78                    | -0.1292                 | -0.2109                 | -0.315                   | -0.4165                  | -1.474                 | -0.3144                 |
| 1000 | 1       | -0.3025                  | -1.265                   | -1.445                  | -0.3966                 | -0.3706                  | -0.5721                  | 0.22                   | -0.73                   |
| 1001 | 1       | 0.2223                   | 0.4395                   | -9.61E-12               | 0.1282                  | -0.9258                  | -0.1073                  | -0.3752                | 0.9748                  |
| 1002 | 1       | -0.2523                  | -0.3452                  | -1.445                  | -1.256                  | -1.15                    | -0.452                   |                        | 0.7502                  |
| 1003 | 1       | -0.008359                | -0.2212                  | -1.021                  | -1.552                  | -1.026                   | -0.208                   | 0.05414                | 0.7841                  |
| 1004 | 1       | -0.2475                  | -0.08031                 | -0.9198                 | -0.6316                 | -0.5056                  |                          | -1.155                 | 0.965                   |
| 1005 | 1       | -0.6928                  | -0.4956                  | -0.4051                 | -0.2669                 | -0.9609                  | -0.2124                  |                        |                         |
| 1006 | 1       | -0.2625                  | -0.8953                  | -0.3948                 | -1.277                  | -1.061                   | 0.06789                  | 0.92                   | 0.48                    |
| 1007 | 1       | 0.1675                   | -0.7553                  | -0.3948                 | -0.8566                 | -0.3006                  | -0.05211                 | 0.1                    | 0.21                    |
| 1008 | 1       | 0.81                     | 0.1872                   | -0.6323                 | -1.044                  | 0.3719                   | -0.4496                  | 0.6225                 | -1.188                  |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1009 | 1       | 0.27                     | -0.5828                  | -0.5423                 | -1.694                  | 0.3419                   | -0.2596                  | 0.4625                 | - 0.2225                |
| 1010 | 1       | 0.52                     | -0.3223                  | -0.3223                 | -0.6241                 | 0.1919                   | -0.3896                  | 0.8725                 | 0.0625                  |
| 1011 | 1       | 0.6075                   | -1.225                   | -0.5348                 | -0.006562               | 0.1594                   | 0.1779                   | 0.4                    | 0.58                    |
| 1012 | 1       | 0.5575                   |                          |                         | -0.08656                | 0.4094                   | 0.03789                  |                        | 0.39                    |
| 1013 | 1       | 0.642                    | -0.2208                  | -1.25                   | -0.07203                | 0.3439                   | -0.5476                  | 0.4145                 |                         |
| 1014 | 1       | 0.6077                   | 0.08484                  | -0.2746                 | 0.3036                  | -0.3005                  | 0.318                    | -1.81                  | -0.3298                 |
| 1015 | 1       | 0.4769                   | -0.3859                  | -0.09543                | 0.2728                  | 0.2888                   | 0.3673                   | -0.1806                | 2.419                   |
| 1016 | 1       | -0.2549                  | 0.1223                   | 0.4728                  |                         | -0.403                   | 1.925                    | 0.5176                 | 0.02758                 |
| 1017 | 1       | 0.0675                   | -0.2353                  | -0.1648                 | -0.7866                 | 0.2294                   | -0.6921                  |                        | -0.9                    |
| 1018 | 1       | -0.3025                  | -0.4553                  | -0.3448                 | -0.07656                | -0.3306                  | -0.2221                  | 0.35                   | 0.03                    |
| 1019 | 1       | 0.04668                  | -0.9161                  | 0.2844                  | 0.1526                  | 0.1386                   | -0.2629                  |                        | 0.6992                  |
| 1020 | 1       | 0.2275                   | 0.1447                   | 0.9852                  | 0.3334                  | 0.5394                   | -0.2821                  | -0.97                  | 0.41                    |
| 1021 | 1       | -0.008437                | 0.02875                  | 0.009258                | 0.0175                  | 0.3234                   | -0.238                   | -0.8559                | 0.05406                 |
| 1022 | 1       | -0.0925                  | 0.04469                  | 0.1052                  | 0.1934                  | 0.5594                   | -0.02211                 | -1.61                  | -0.13                   |
| 1023 | 1       | -0.3525                  | -0.05531                 | -0.0748                 | 0.2334                  | -1.001                   | -0.08211                 |                        | 0.19                    |
| 1024 | 1       | -0.09672                 | -0.4495                  | -0.589                  | -0.2408                 | -0.09484                 | -0.5563                  | -0.8742                | -0.1042                 |
| 1025 | 1       | -0.1875                  | -0.9703                  | -0.2398                 | -0.3316                 | -0.2756                  | -0.2471                  | 0.025                  | -0.095                  |
| 1026 | 1       | -0.08234                 | -0.2752                  | -1.025                  | 0.8036                  | -0.5305                  | -0.742                   | -0.4398                | -1.12                   |
| 1027 | 1       | -0.3181                  | -1.341                   | -0.6904                 | -1.332                  | 0.1437                   | -0.5077                  | -1.136                 | 1.064                   |
| 1028 | 1       | -0.3945                  | -0.7973                  | 0.01316                 | 0.001406                | -0.3827                  | 0.02586                  | -0.312                 | -0.262                  |
| 1029 | 1       | 1.318                    | -0.2553                  | -0.6248                 | -1.397                  | 1.399                    | 1.278                    | 0.1                    | -0.55                   |
| 1030 | 1       | 0.5104                   | -0.1724                  | -0.2719                 | -0.5437                 | -0.1577                  | -0.1592                  |                        | -0.3871                 |
| 1031 | 1       | 0.5206                   | 0.1378                   | -0.6117                 | -0.1634                 | -0.1575                  | -0.03898                 | 0.003125               | 0.3631                  |
| 1032 | 1       | 0.0275                   | 1.175                    | 0.4552                  | -0.6966                 | -0.1006                  | -0.3821                  | 0.23                   | -0.03                   |
| 1033 | 1       | 0.1309                   | 0.6781                   | 0.05859                 | 0.2868                  | 0.1628                   | -0.08871                 | -0.2666                | -0.1866                 |
| 1034 | 1       | 0.2527                   | 0.8398                   | -0.1296                 | 0.2386                  | 0.1045                   | 0.473                    | 0.005156               | 0.07516                 |
| 1035 | 1       | 0.2675                   | -1.625                   | 0.1552                  | -0.3566                 | -0.1506                  | -0.3921                  | -0.03                  | -1.02E-08               |
| 1036 | 1       | 0.2336                   |                          | -1.119                  | 0.08953                 | 0.07547                  |                          | -0.8539                | -0.4439                 |
| 1037 | 1       | 0.05688                  | -0.3059                  | -0.9254                 | -0.05719                | -0.03125                 | 0.07727                  | -0.1006                | -0.1006                 |
| 1038 | 1       | 0.2391                   | -0.5137                  | -0.5932                 | -0.1749                 | -0.409                   | -0.3105                  | 0.2316                 | -0.03836                |
| 1039 | 1       | 0.7675                   | -0.2053                  | -1.095                  | -1.127                  | 0.5494                   | 0.2879                   | 0.46                   | -3.85E-09               |
| 1040 | 1       | 0.545                    | 0.5022                   | -0.0973                 | 0.2409                  | -0.1231                  | -0.5946                  |                        | -0.1325                 |
| 1041 | 1       | 0.0425                   | -0.2203                  | 1.36                    | 0.1084                  | -0.1456                  | -0.3271                  | -0.665                 | -0.025                  |
| 1042 | 1       | -0.365                   | -0.09781                 |                         | 0.6009                  | -0.1331                  | 0.5254                   | 0.8375                 | -0.6525                 |
| 1043 | 1       | 0.161                    | 0.7382                   | -0.1613                 | -0.473                  | -0.2371                  | 0.2014                   | -0.2365                | 0.07352                 |
| 1044 | 1       | 1.128                    | -0.3153                  | -1.045                  | 0.5734                  | 0.2694                   | -0.1121                  | 0.65                   | 0.3                     |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | -1                       | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1045 | 1       | 0.02                     | -0.4528                  | -0.9123                 | -2.044                  | 0.3119                   | -0.6596                  | -0.0875                | 0.0825                  |
| 1046 | 1       | 0.4205                   | 0.6077                   | 0.6582                  | -0.5435                 | 0.2924                   | 0.01094                  | 0.233                  | -0.09695                |
| 1047 | 1       | 0.7502                   | -0.1226                  | -0.2721                 | -0.2838                 | 0.5021                   | -0.4094                  | 0.4327                 | -0.02727                |
| 1048 | 1       | 0.918                    | 1.095                    |                         | 0.974                   | 0.1799                   | 0.4584                   | 0.7805                 | 0.5605                  |
| 1049 | 1       | 0.3632                   | 0.7204                   | -0.2091                 | 0.9192                  | -0.01488                 | 0.3236                   | 0.1557                 | 0.2657                  |
| 1050 | 1       | -0.08977                 | -0.9026                  | -0.8721                 | -0.2938                 | 0.4421                   | -0.02938                 | 0.1527                 | -0.3573                 |
| 1051 | 1       | 0.8719                   | -0.8809                  | -0.3604                 | -0.01219                | 0.00375                  | 0.3423                   | 0.6644                 | -0.01563                |
| 1052 | 1       | -0.2941                  | -0.307                   | -0.8564                 | 0.1518                  | -0.2023                  | -0.5137                  | -0.7216                | -0.06164                |
| 1053 | 1       | 0.0825                   | -0.1603                  | -0.8798                 | -0.2516                 | 0.2744                   | -0.2471                  | -0.385                 | -0.185                  |
| 1054 | 1       | 0.07418                  | -0.7886                  | -0.6281                 | -0.1299                 | 0.2061                   | 0.1946                   | -0.6033                | 0.3167                  |
| 1055 | 1       | 0.02875                  | 0.7259                   | -0.5336                 | 0.1347                  | 0.000625                 | -0.05086                 | 0.3812                 | 0.1712                  |
| 1056 | 1       | 0.3092                   | 0.08641                  | -0.7631                 | -0.03484                | -0.1689                  | 0.2596                   | -0.4783                | -0.4883                 |
| 1057 | 1       | 0.045                    | 0.02219                  |                         |                         | -0.4231                  | -0.004609                | 1.487                  | 0.1075                  |
| 1058 | 1       | 0.5738                   | -0.2191                  |                         | -0.3803                 | 0.1656                   | -0.3459                  | -0.7738                | 0.1862                  |
| 1059 | 1       | 1.038                    | -0.1253                  | -0.4848                 | -0.9066                 | 0.6294                   | -0.06211                 | 0.38                   | 0.08                    |
| 1060 | 1       | 0.5278                   | -0.435                   | 0.1355                  | 0.07375                 | 0.1697                   | 0.0182                   | 0.1803                 | 0.06031                 |
| 1061 | 1       | 0.3906                   | -0.3822                  | -1.382                  | 0.2766                  | -0.2375                  | 0.321                    | 1.273                  | 0.2331                  |
| 1062 | 1       | 0.2769                   | 0.4741                   | -0.9154                 | 1.153                   | -0.2613                  | 0.1173                   | 0.01937                | -0.2906                 |
| 1063 | 1       | 0.2575                   | -0.2553                  | -0.9948                 | -0.01656                | 0.2094                   | -0.1421                  | -0.62                  | 0.12                    |
| 1064 | 1       | 0.4225                   | 0.3097                   | -0.5898                 | 0.5284                  | 0.6244                   | 0.1229                   | 0.005                  | 0.155                   |
| 1065 | 1       | 0.8175                   | -0.07531                 |                         | -0.3366                 | 0.3594                   | -0.1521                  | 0.29                   | 0.07                    |
| 1066 | 1       | 0.8719                   | -0.5409                  | -0.8704                 | -0.2322                 | 0.3237                   | 0.3823                   | 0.3944                 | 0.3944                  |
| 1067 | 1       | 0.2596                   | -0.0432                  | -0.1027                 | 0.6655                  | 0.3415                   | 0.33                     | -0.07789               | 0.2421                  |
| 1068 | 1       | 0.2331                   | -0.4897                  | -0.4192                 | 0.5691                  | -0.025                   | -0.5465                  | 0.5256                 | -0.05438                |
| 1069 | 1       | -0.1025                  | 0.04469                  | -0.2348                 | 0.09344                 | -0.09063                 | 0.3079                   | -1.8                   | -0.32                   |
| 1070 | 1       | -0.7231                  | -0.6259                  | -0.8454                 | 0.05281                 | 0.1887                   | -0.5927                  | -0.04063               | -0.6006                 |
| 1071 | 1       | -0.6675                  | -0.3103                  | 0.6002                  | 0.3284                  | 0.08438                  | -0.3971                  |                        | -0.565                  |
| 1072 | 1       | -0.2685                  | 0.1487                   | 0.1992                  | 0.3474                  | -0.4666                  | 1.712                    |                        | -1.006                  |
| 1073 | 1       | 0.4338                   | 0.3909                   | -0.2986                 |                         | -0.05438                 | -0.02586                 | 0.1462                 | -0.3238                 |
| 1074 | 1       | 0.07484                  | -0.128                   | 0.06254                 | -0.1292                 | 0.07672                  | 0.2352                   | -0.5227                | 0.3573                  |
| 1075 | 1       | 0.3135                   | -0.2893                  | -0.5488                 | -0.6106                 | 0.03535                  | -0.2361                  | -1.244                 | -0.04402                |
| 1076 | 1       | 0.05969                  | -0.06313                 | -0.2226                 | 0.3256                  | 0.2016                   | 0.03008                  | -0.5378                | -0.8778                 |
| 1077 | 1       | 0.3013                   | -1.022                   | -0.7911                 | 0.1172                  | 0.03313                  | -0.4584                  | 0.02375                | 0.2538                  |
| 1078 | 1       | -0.325                   | 0.002188                 | -0.1673                 | 0.07094                 | -0.2331                  | -0.3146                  |                        | -0.5525                 |
| 1079 | 1       | 0.3044                   | 0.5216                   | -0.1279                 |                         | 0.2563                   | 0.1248                   | -0.6531                | -0.6531                 |
| 1080 | 1       | -0.5714                  | -0.6742                  | 0.5663                  | -0.06547                | -0.7395                  | 0.909                    |                        | -0.1489                 |



Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1081 | 1       | -0.2746                  | -0.05746                 |                         | 0.02129                 | -0.2228                  | -0.5043                  | -0.05215               | -0.002148               |
| 1082 | 1       | 0.0775                   | 0.6647                   | -0.1948                 | -0.3166                 | 0.09937                  | -0.3621                  | 0.12                   | -0.48                   |
| 1083 | 1       | 0.08031                  | -0.0625                  | 0.258                   | -0.03375                | -0.1778                  | 0.0007031                |                        | 0.3628                  |
| 1084 | 1       | -0.385                   | -1.788                   | -1.067                  | -0.2991                 | 0.4669                   | 1.095                    | -0.4925                | -0.4925                 |
| 1085 | 1       | 0.2706                   | -0.1022                  | 0.3183                  | -0.3934                 | 0.3625                   | 0.191                    |                        | 0.5331                  |
| 1086 | 1       | 0.49                     | -0.01281                 | -0.4223                 | -0.1341                 | 0.2319                   | -0.07961                 | 0.0125                 | -0.2375                 |
| 1087 | 1       | -0.0025                  | 0.08469                  | -0.1548                 | -0.5266                 | -0.5206                  | -0.4321                  | 0.03                   | -0.34                   |
| 1088 | 1       | 0.7753                   | -0.1875                  | 0.333                   | -0.6887                 | -0.6628                  | -0.5743                  | -1.432                 | -1.272                  |
| 1089 | 1       | -0.3363                  | -1.369                   | -0.1386                 | -1.04                   | 0.4055                   | -0.4059                  | 0.9762                 |                         |
| 1090 | 1       | 0.2275                   | 0.1147                   | -0.3848                 | -0.1666                 | -0.06062                 | -0.7821                  | 0.24                   | -0.63                   |
| 1091 | 1       | 0.1075                   | -1.945                   | -0.9548                 | -0.3466                 | -0.4006                  | -0.4321                  |                        | -0.4                    |
| 1092 | 1       | -0.6525                  | -2.015                   | 0.3252                  | 0.2534                  | 0.1894                   | -0.09211                 | -0.85                  | -0.51                   |
| 1093 | 1       | 0.04484                  | 0.742                    | -0.04746                | 0.4008                  | -0.01328                 | -0.004766                |                        |                         |
| 1094 | 1       | 0.4887                   | -0.7241                  | -0.6436                 | 0.1646                  | 0.02055                  | -0.2909                  | -0.4988                | -0.2288                 |
| 1095 | 1       | -0.01687                 | -0.6997                  | -0.6192                 | 0.3691                  | 0.355                    | -0.2665                  | -0.4744                | -0.6744                 |
| 1096 | 1       | -0.2712                  | -1.484                   | -1.124                  | 0.4647                  | 0.000625                 | -0.3109                  |                        | -0.6988                 |
| 1097 | 1       | -0.3125                  | -0.9453                  | 0.0352                  | -0.4966                 | -0.5106                  | 0.05789                  | 0.78                   | -0.15                   |
| 1098 | 1       | -0.03031                 | -0.6131                  | -0.7526                 | -0.2444                 | -0.2584                  | -0.07992                 | -0.04781               | -0.8278                 |
| 1099 | 1       | -0.09914                 | -0.462                   | -1.121                  | -0.3932                 | 0.3027                   | -0.5487                  | 0.2434                 | -0.9066                 |
| 1100 | 1       | -0.4075                  | 0.3897                   | 0.5802                  | -0.1016                 | 0.1944                   | 0.4029                   | -0.095                 | -0.965                  |
| 1101 | 1       | -0.5475                  | -0.0003125               |                         | 1.138                   | -0.1556                  | -0.2771                  |                        | 0.205                   |
| 1102 | 1       | 0.1447                   | -0.4281                  | -0.4076                 | 0.000625                | 1.027                    | 1.125                    | -0.02281               | 0.5272                  |
| 1103 | 1       | 0.6875                   | 0.3747                   | -0.5148                 | 0.4534                  | 0.5894                   | -0.09211                 | 0.08                   | -0.07                   |
| 1104 | 1       | 0.2471                   | -0.9157                  | 0.6448                  | -0.05691                | 0.389                    | 0.1075                   | 0.2296                 | -0.01035                |
| 1105 | 1       | 1.34                     | 0.7071                   |                         | -0.1741                 | 0.5318                   | -0.5397                  |                        | -0.4576                 |
| 1106 | 1       | -0.09305                 | 0.1341                   | -0.1454                 | -0.01711                | 0.2788                   | 0.3373                   |                        | -0.06055                |
| 1107 | 1       | 0.1925                   | 0.2297                   | 0.4702                  | -0.03156                | 0.2844                   | 0.5029                   | 1.295                  | 0.405                   |
| 1108 | 1       | 0.2756                   | -0.1572                  | 1.153                   | 0.7116                  | -0.0325                  | 0.496                    | 2.468                  | 0.1381                  |
| 1109 | 1       | -0.0725                  | 0.1647                   | -0.1148                 | 0.06344                 | -0.4906                  | 0.5779                   | -0.28                  | -0.01                   |
| 1110 | 1       | 0.1275                   | -0.01531                 | 1.145                   | 0.1434                  | 0.3994                   | 0.1179                   | -1.19                  | -0.38                   |
| 1111 | 1       | -0.3064                  | 0.3408                   | 1.061                   | 0.4795                  | -0.4045                  | 0.284                    | -0.8139                | -0.6139                 |
| 1112 | 1       | -0.3703                  | -0.5331                  | 0.6474                  | 0.7156                  | -0.1884                  | 0.5601                   | 0.7822                 | 0.2922                  |
| 1113 | 1       | 0.095                    | 0.4522                   | -0.2273                 | 0.9409                  | 0.3069                   | -0.08461                 | -0.1825                | -0.6725                 |
| 1114 | 1       | -0.02195                 | -0.05477                 | -0.2543                 | 0.314                   | 0.1599                   | -0.03156                 | 0.1605                 | -0.3695                 |
| 1115 | 1       | 0.428                    | 0.06523                  | -0.4143                 | -1.356                  | 0.1899                   | -0.6316                  | -0.9895                | -0.5795                 |
| 1116 | 1       | 0.2155                   | 0.5427                   | -0.1868                 | -0.1886                 | 0.3073                   | 0.5759                   | -0.332                 | -0.232                  |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1117 | 1       | 0.1736                   | 0.2108                   | -0.008672               | -0.4904                 | 0.06551                  | -0.326                   | 0.006133               | -0.09387                |
| 1118 | 1       | -0.1697                  | -0.7225                  | 0.148                   | 0.6863                  | -0.4878                  | 0.2707                   | 0.1628                 | 0.6028                  |
| 1119 | 1       | -0.24                    | -1.243                   | -0.0523                 | 0.06594                 | 0.4819                   | 0.5704                   | 0.3925                 | 0.3025                  |
| 1120 | 1       | 0.2375                   | 0.3447                   | -0.2148                 | -0.1766                 | 0.6194                   | 0.2879                   | 0.04                   | 0.42                    |
| 1121 | 1       | 0.3904                   | 1.048                    | 1.158                   | 0.7563                  | 0.002266                 | 0.3508                   | 0.04289                | 0.4529                  |
| 1122 | 1       | 0.1725                   | 0.7797                   | 0.5402                  | 0.5384                  | -0.06562                 | 0.1129                   | 0.855                  | 0.115                   |
| 1123 | 1       | 0.1161                   | 0.5133                   | 0.9338                  | 0.162                   | 0.338                    | 0.3265                   |                        | 0.4886                  |
| 1124 | 1       | -0.0001562               | 0.257                    | 0.2575                  | 0.8658                  | -0.4683                  | 0.3202                   | 0.6523                 | -0.1377                 |
| 1125 | 1       | 0.07781                  | -0.525                   | -0.05449                | -0.2063                 | -0.05031                 | 1.198                    | -0.2097                | -0.3497                 |
| 1126 | 1       | 0.2134                   | -0.1894                  | 0.1011                  | -0.3306                 | -0.1647                  | -0.2762                  | -1.074                 | -0.5241                 |
| 1127 | 1       | 0.2984                   | 0.4955                   | -0.5739                 | -0.0357                 | 0.3502                   | 0.3288                   | -0.5291                | -0.2691                 |
| 1128 | 1       | -0.2137                  | 0.2034                   | -0.01605                | 0.1822                  | 0.09812                  | 0.3266                   | 0.4687                 | -0.1013                 |
| 1129 | 1       | 0.4436                   | 0.07078                  | -0.3187                 | -1.26                   | 0.3055                   | -0.136                   | -0.3039                | 0.07609                 |
| 1130 | 1       | 0.0525                   | 0.2497                   | 0.0702                  | 0.1184                  | 0.01437                  | -0.3671                  | 0.315                  | -0.325                  |
| 1131 | 1       | -0.1269                  | 0.2503                   | 0.1708                  | -0.3309                 | 0.035                    | 0.6835                   | 0.6756                 | -0.1944                 |
| 1132 | 1       | -0.2325                  | 0.4347                   | -0.4748                 | 0.5034                  | 0.2794                   | 0.3579                   | 0.2                    | -0.23                   |
| 1133 | 1       | -0.06262                 | 0.1946                   | -0.7649                 | 0.2033                  | 0.4093                   | 0.2078                   | -0.07012               | -0.3801                 |
| 1134 | 1       | -0.4119                  | -0.1847                  | -0.6042                 | 0.6441                  | 1.40E-11                 | 0.1385                   | 0.4106                 | -0.6194                 |
| 1135 | 1       | 0.4868                   | 0.184                    | 0.03449                 | -0.04727                | 0.5387                   | 0.3172                   | 0.1893                 | 0.3993                  |
| 1136 | 1       | 0.3297                   | 0.1069                   | -0.2326                 |                         | -0.04844                 | 0.3401                   | -0.6878                | 0.4322                  |
| 1137 | 1       | 0.0275                   | -0.4453                  | -0.0748                 | -0.4266                 | 0.3294                   | 0.5579                   | 0.3                    | -2.55E-09               |
| 1138 | 1       | 0.2261                   | 0.3133                   | -0.3962                 | 0.122                   | 0.298                    | 0.1665                   | -0.01141               | 0.2186                  |
| 1139 | 1       | 0.3297                   | 0.2869                   | 0.3974                  | 0.1556                  | 0.4216                   |                          | 0.1322                 | -0.1078                 |
| 1140 | 1       | 0.4022                   | 0.7494                   | 0.1399                  | 0.9181                  | 0.2641                   | 0.1026                   | 0.4047                 | 0.07469                 |
| 1141 | 1       | 0.1548                   | 0.392                    | -0.05746                | 0.3808                  | 0.2967                   |                          | -0.4727                |                         |
| 1142 | 1       | 0                        | -0.2228                  | 0.2877                  | -0.4559                 | 0.1819                   | 0.3004                   | 0.4125                 | -0.0575                 |
| 1143 | 1       | 0.01                     | 0.3972                   | 0.1777                  | -0.2541                 | -0.1881                  | -0.3396                  | -1.398                 | 0.3625                  |
| 1144 | 1       | -0.1675                  | -1.29                    | -0.1198                 | 0.5584                  | -0.04562                 | 0.1929                   | -0.195                 | 0.145                   |
| 1145 | 1       | -0.1325                  | 0.2347                   | 0.6052                  | -0.5766                 | -0.04063                 | 0.1379                   | 0.38                   | 0.22                    |
| 1146 | 1       | -0.2522                  | 0.145                    | 0.3255                  | 0.4837                  | 0.1597                   | 0.2382                   | -0.4497                | -0.5597                 |
| 1147 | 1       | -0.0025                  | 0.4547                   | -0.3648                 | 1.323                   | 0.4594                   | 0.3279                   | -0.08                  | -0.55                   |
| 1148 | 1       | 0.1625                   | -0.1903                  | -0.5998                 | -0.9716                 | -0.4056                  | -0.007109                |                        | -0.695                  |
| 1149 | 1       | -0.3625                  | -0.8553                  | -0.1148                 | 0.02344                 | 0.4294                   | 0.09789                  | 0.65                   | -0.02                   |
| 1150 | 1       | 0.4727                   | 0.2598                   | 0.5404                  | 0.8886                  | -0.07547                 | 0.553                    | 0.7352                 | 0.4152                  |
| 1151 | 1       | 0.5275                   | -0.02531                 | 0.4652                  | 0.8834                  | 0.5194                   | 0.1079                   | 1.31                   | -3.85E-09               |
| 1152 | 1       | 0.2269                   | 0.2441                   | -0.3854                 | -0.03719                | 0.9388                   | 0.2173                   | 0.3794                 | -0.5306                 |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | -1                       | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1153 | 1       | -0.06937                 | 0.01781                  | 0.1483                  | -0.3334                 | 0.3125                   | -0.799                   | 2.333                  | -1.787                  |
| 1154 | 1       | 0.2041                   | -0.04875                 | 0.1018                  | 0.43                    | -0.3941                  | -0.1055                  |                        | -0.05344                |
| 1155 | 1       | 0.00375                  | 0.2609                   | -0.09855                | 0.4297                  | -0.02438                 | 0.4941                   | 0.06625                | 0.3862                  |
| 1156 | 1       | -0.2775                  | 0.6197                   | 0.1102                  | 0.1984                  | -0.1456                  | 0.6129                   | -0.215                 | -0.015                  |
| 1157 | 1       | 0.2825                   | 0.5297                   | 0.2402                  | -0.7616                 | 0.1244                   | -0.3171                  | 0.025                  | 0.165                   |
| 1158 | 1       | 0.4288                   | 1.236                    | 0.1664                  | 0.9547                  | 0.00625                  | -0.5209                  | -0.1388                | 0.8812                  |
| 1159 | 1       | 0.1275                   | 0.8247                   | -1.495                  | -0.5266                 | 0.7494                   | 1.398                    |                        | -0.51                   |
| 1160 | 1       | -0.1425                  | -1.775                   | -0.3548                 | 0.5834                  | 0.5694                   | 0.3179                   | -0.36                  | -0.63                   |
| 1161 | 1       | -0.9037                  | -0.8666                  | -0.3061                 | 0.1622                  | 0.07812                  | 0.2566                   | 0.4787                 | 0.3387                  |
| 1162 | 1       | -0.2262                  | -0.2991                  | 0.02145                 | 0.04969                 | 0.6856                   | -0.1759                  | 0.3362                 | 0.3162                  |
| 1163 | 1       | 0.3075                   | 0.5647                   | -0.1248                 | 0.7134                  | -0.4706                  | -0.04211                 | 0.04                   | 0.61                    |
| 1164 | 1       | 0.9586                   | 0.4858                   | -0.4237                 |                         | -0.3195                  | 0.279                    |                        | 0.06109                 |
| 1165 | 1       | 0.4577                   | -0.4951                  | -1.095                  | 0.4737                  | 0.1696                   | 0.5281                   | -1.36                  | 0.07023                 |
| 1166 | 1       | 0.3738                   | 0.009375                 | 0.2214                  | -0.05031                | -0.5344                  | -0.3559                  | -0.5138                | -0.1238                 |
| 1167 | 1       | 0.1375                   | 0.4247                   | -0.8048                 | -0.07656                | 0.02937                  | -0.1421                  | 0.66                   | 0.3                     |
| 1168 | 1       | 0.2063                   | 1.073                    | 0.07395                 | 0.3322                  | 0.2881                   | -0.1134                  |                        | 0.05875                 |
| 1169 | 1       | 0.355                    | 1.052                    | -0.2773                 |                         | 1.037                    | 0.04539                  |                        |                         |
| 1170 | 1       | 0.0275                   | 0.7347                   | -0.0248                 | 0.1334                  | 0.1894                   | 0.7079                   | -0.02                  | 0.4                     |
| 1171 | 1       | -0.0725                  | -0.4353                  | -1.325                  | -1.077                  | 0.3894                   | 0.2379                   | -0.15                  | -0.61                   |
| 1172 | 1       | 2.897                    | 3.724                    |                         | 1.983                   | 1.979                    |                          | 0.1893                 | 0.5393                  |
| 1173 | 1       | 0.0225                   | 0.3597                   | 0.7702                  | -0.001562               | 0.9144                   | -0.5471                  |                        | -0.515                  |
| 1174 | 1       | 0.5475                   | 1.425                    | 0.8652                  | 0.4634                  | -0.8706                  | -1.132                   |                        | -1.49                   |
| 1175 | 1       | -0.6396                  | -0.5425                  | 1.668                   | 0.1263                  | -0.9378                  | -1.369                   | 0.3729                 | 1.073                   |
| 1176 | 1       | -0.2094                  | -1.172                   |                         |                         | -0.3375                  | -1.799                   | 0.7531                 | 1.233                   |
| 1177 | 1       | -0.1803                  | 0.4669                   | -0.1626                 | -1.444                  | -0.6384                  | -1.26                    | 0.5122                 | 0.6622                  |
| 1178 | 1       | 0.4896                   | -0.4432                  | -0.3027                 | 0.08555                 | -0.2585                  | -0.36                    | 0.2321                 | 0.1321                  |
| 1179 | 1       | 1.47                     | -1.133                   |                         | -0.5144                 | -0.08844                 | -0.8999                  |                        |                         |
| 1180 | 1       | 0.2817                   | -1.121                   | -0.2806                 | 0.4777                  | 0.4436                   | 0.6321                   | -0.2458                | 0.09422                 |
| 1181 | 1       | -0.1931                  | -0.7359                  | 0.5546                  | 0.3828                  | -0.04125                 | 0.04727                  | -1.621                 | 1.839                   |
| 1182 | 1       | 0.6742                   | 0.1714                   | 0.4119                  | 0.2402                  | 0.5761                   | 1.585                    | 2.257                  | 1.137                   |
| 1183 | 1       | 0.9047                   | 0.3519                   | -0.03762                | -1.239                  | -0.7234                  | -0.6849                  | -0.3728                | 2.197                   |
| 1184 | 1       | -0.2325                  | -0.6253                  | -1.225                  | -1.067                  | -0.2906                  |                          | 0.44                   | -0.09                   |
| 1185 | 1       | -0.6694                  | -1.712                   | -1.082                  | -0.03344                | -0.4775                  | -0.789                   | -1.087                 | -0.6869                 |
| 1186 | 1       | 0                        | 0.7572                   | 0.5577                  | 0.09594                 | -0.1281                  | 0.2204                   | -0.6775                | 2.092                   |
| 1187 | 1       | -0.0425                  | 0.4047                   | 0.8752                  | -1.297                  | -0.1206                  | 0.1879                   | -0.85                  | 2.36                    |
| 1188 | 1       | -0.4725                  | -0.4553                  | -0.4448                 | -2.247                  | 1.169                    | 0.6579                   | -0.86                  | -0.46                   |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1189 | 1       | 0.09031                  | -0.2625                  | -2.862                  | -1.664                  | 0.4322                   | 0.0007031                | -1.097                 | -0.7572                 |
| 1190 | 1       | 0.8948                   | -0.04797                 | -0.3575                 | -0.03922                | 0.1267                   | -0.1048                  | -0.3027                | 0.1873                  |
| 1191 | 1       | 0.6431                   | 0.4603                   | -0.7392                 | -0.3709                 | -0.465                   | 0.05352                  | -0.5944                | -0.3844                 |
| 1192 | 1       | 0.7484                   | 0.5156                   | -1.224                  | -0.7656                 | 0.3103                   | 0.1188                   | -0.3691                | -0.3591                 |
| 1193 | 1       | 0.6714                   | 0.6586                   | -0.5909                 | -0.4627                 | -0.7567                  | -0.1282                  | -0.2761                | -0.03609                |
| 1194 | 1       | 0.1875                   | 0.4347                   | -0.7148                 | -0.5966                 | -0.06063                 | -0.4421                  | -0.39                  | -0.14                   |
| 1195 | 1       | 0.6319                   | 0.5391                   | -0.3204                 | -1.522                  | -0.5663                  | -0.5977                  | -0.6844                | -0.09563                |
| 1196 | 1       | -0.2466                  | -1.029                   | -0.6689                 | -2.091                  | -0.06469                 | -0.6262                  | -0.1241                | -0.4141                 |
| 1197 | 1       | 0.1525                   | -1.54                    | -1.52                   | -1.432                  | -0.6356                  | -1.737                   | 0.775                  | -0.335                  |
| 1198 | 1       | 0.01531                  | -0.2275                  | -0.557                  | -0.4587                 | -0.07281                 | -0.4343                  | -0.4822                | 0.5778                  |
| 1199 | 1       | -0.4525                  | -2.085                   | -0.0548                 | -0.7166                 | -0.2206                  | -0.5221                  |                        | -0.24                   |
| 1200 | 1       | 0.4816                   | 0.3088                   | -0.1107                 | -0.9624                 | -0.7865                  | 0.212                    | -0.6359                | 0.8141                  |
| 1201 | 1       | 0.0825                   | -0.0003125               | -0.1098                 | -0.5116                 | -0.1356                  | -0.04711                 | -0.305                 | 0.865                   |
| 1202 | 1       | 0.02336                  | 0.3805                   | -0.1689                 | -0.9207                 | -0.1248                  | -0.1262                  | -0.5141                | 0.2359                  |
| 1203 | 1       | 0.6875                   | -1.135                   | -1.085                  | -1.647                  | -0.3506                  | -0.05211                 | 1.26                   | -0.13                   |
| 1204 | 1       | 1.215                    | -1.828                   | -0.7973                 | -1.589                  | -0.9931                  | -0.8046                  |                        | -0.0725                 |
| 1205 | 1       | 0.2666                   | -0.6862                  | -0.5157                 | -1.377                  | -0.3215                  | -0.703                   | -0.02086               | -0.2509                 |
| 1206 | 1       | 0.1458                   | 0.183                    |                         |                         | -0.8823                  | -0.3638                  | -0.1017                | -0.3917                 |
| 1207 | 1       | -0.4727                  | -0.6855                  | -0.995                  | -0.9768                 | -0.3909                  | -0.3023                  |                        | -0.8102                 |
| 1208 | 1       | -0.2625                  | -1.445                   | -1.355                  | -2.497                  | -1.741                   | -1.822                   |                        | -1.23                   |
| 1209 | 1       | -0.0875                  | -2.08                    | -1.83                   | -1.942                  | -0.6556                  | -0.8171                  | -0.865                 | -1.205                  |
| 1210 | 1       | -0.5442                  | -1.897                   |                         |                         |                          |                          |                        | -1.522                  |
| 1211 | 1       | 0.1479                   | -0.4349                  | -1.094                  | -1.286                  | -0.1202                  | -0.4417                  | -0.2496                | -0.1896                 |
| 1212 | 1       | -0.1273                  | 0.1198                   | -0.9696                 | -1.451                  | -0.3555                  | -0.847                   | -0.1148                | -0.4648                 |
| 1213 | 1       | -0.2869                  | -0.2897                  | -2.189                  |                         | -0.295                   |                          | -0.4744                | -1.274                  |
| 1214 | 1       | -0.2425                  | -0.3353                  | -1.715                  |                         | -0.3506                  |                          | -0.25                  |                         |
| 1215 | 1       | -0.1225                  | 0.1947                   | -1.235                  | -0.4866                 | -0.6106                  | 0.1479                   | -0.31                  | -0.86                   |
| 1216 | 1       | -0.2214                  | 0.1458                   | -0.9137                 | 0.02453                 | -0.5995                  |                          | -0.1889                | -0.6889                 |
| 1217 | 1       | -0.2814                  | -0.9642                  | -1.694                  | -1.655                  | -0.4595                  | -0.491                   | -0.3089                | -1.009                  |
| 1218 | 1       | 0                        | -0.002813                | -1.692                  | -1.094                  | -0.1481                  | -0.6296                  | -0.6875                | -0.6475                 |
| 1219 | 1       | 0.3409                   | -1.772                   |                         | -1.233                  | 0.2027                   | -0.5387                  | -1.117                 | -0.7966                 |
| 1220 | 1       | -0.2773                  | -1.35                    |                         |                         | -1.295                   |                          |                        | -0.1348                 |
| 1221 | 1       | 0.04313                  | 0.1203                   | -0.1992                 | -0.4209                 | 0.065                    | 0.1235                   | -0.4644                | 0.2356                  |
| 1222 | 1       | 0.02781                  | -0.745                   | -1.244                  | -0.9163                 | 0.2497                   | -0.2818                  | -0.7897                | -0.7797                 |
| 1223 | 1       | -0.2725                  | -0.9553                  | -1.355                  | -1.557                  | -0.02062                 | 0.01789                  | -0.06                  | -0.24                   |
| 1224 | 1       | -0.07023                 | -0.743                   | -0.9525                 | -0.5343                 | 0.7816                   | 0.6402                   | -0.4577                | -0.3077                 |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 1225 | 1       | 0.2831                   | 0.09031                  | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1226 | 1       | -0.1266                  |                          | -0.6289                 | 0.5091                  | -0.305                   |                          | 0.8356                 | 0.4756                  |
| 1227 | 1       | 0.8499                   | -2.383                   | -0.0124                 | -0.4342                 | -0.8882                  | -0.8162                  | 0.3859                 |                         |
| 1228 | 1       | 0.4375                   | -3.095                   |                         | -0.006562               | 0.6494                   | -1.13                    |                        | 0.9724                  |
| 1229 | 1       | -0.3241                  | -0.967                   | 0.3336                  | -0.3882                 | 0.3177                   | -0.04375                 | 0.3                    | -0.14                   |
| 1230 | 1       | 0.08578                  | 0.393                    | -1.257                  | -1.118                  | -0.2623                  | -0.2738                  | -0.4116                | 0.6684                  |
| 1231 | 1       | 0.08437                  | -0.008438                | -1.658                  | -1.31                   | -0.08375                 | -0.2452                  | -0.6317                | -0.9717                 |
| 1232 | 1       | 0.1668                   | -0.006016                | -1.486                  | -1.187                  | -0.01133                 | 0.06719                  | -0.4531                | -1.053                  |
| 1233 | 1       | -0.0325                  | 0.07469                  | -1.315                  | 0.2134                  | -0.3606                  | -0.06211                 | -0.2607                | -0.8407                 |
| 1234 | 1       | 0.0675                   | -0.8253                  |                         |                         | -0.2506                  |                          | -0.12                  | 0.84                    |
| 1235 | 1       | -0.661                   | 1.486                    | 1.057                   | -1.355                  | -0.3891                  | -0.2606                  | 0.45                   | 1                       |
| 1236 | 1       | -0.001094                | -0.1039                  | -0.5034                 | 0.4348                  | 0.7608                   | 0.3393                   |                        | -0.7185                 |
| 1237 | 1       | 0.7375                   | 0.6047                   | -0.4948                 | -1.397                  | -0.3006                  | -0.6421                  | 0.1714                 | -0.1486                 |
| 1238 | 1       | -0.5325                  | 0.6947                   | -1.045                  | -0.7566                 | -0.1206                  | 0.4679                   | 0.1                    | 0.34                    |
| 1239 | 1       | -0.3109                  | -0.6738                  | -0.1032                 | 0.115                   | -0.9291                  | -0.3705                  | -0.2484                | -0.8184                 |
| 1240 | 1       | 0.1777                   | 0.3148                   | 0.1054                  | 0.3636                  | -0.1705                  | 0.08805                  | -0.4598                | -0.4598                 |
| 1241 | 1       | -0.5425                  | -0.01531                 | 0.0252                  | 0.003438                | -0.5106                  | -0.4521                  | 0.38                   | 0.78                    |
| 1242 | 1       | -6.66E-16                | -1.133                   | -0.0723                 | 0.01594                 | 0.001875                 | 0.1804                   |                        | 0.5925                  |
| 1243 | 1       | -0.7517                  | -0.9245                  | -0.484                  | -0.7258                 |                          | -0.8413                  | -0.8992                | -0.3792                 |
| 1244 | 1       | 0.2406                   | 0.09781                  | -1.052                  | -0.2434                 | -1.028                   |                          |                        | -0.5669                 |
| 1245 | 1       | -0.5898                  | -1.783                   | -0.8621                 | -0.4938                 |                          | -0.2494                  |                        | -1.347                  |
| 1246 | 1       | -0.7525                  | -0.1053                  | 0.8852                  | -0.5566                 | -1.251                   | -0.6821                  |                        | 0.32                    |
| 1247 | 1       | 0.0075                   | -1.685                   | -0.2848                 | 2.443                   | -0.4706                  | -1.152                   |                        | -1.16                   |
| 1248 | 1       | 0.2975                   | -0.4953                  | -0.2648                 | 0.7134                  | -1.541                   | -0.6321                  | -1.02                  | -1.13                   |
| 1249 | 1       | -0.6725                  | -0.2553                  | 0.0752                  | 0.4134                  | -0.7606                  | 0.2079                   |                        | -0.65                   |
| 1250 | 1       | -0.4145                  | -0.7173                  | -0.07684                | -1.439                  | -1.083                   | -0.2841                  | 0.128                  | 1.628                   |
| 1251 | 1       | -0.3593                  | -0.5321                  | 0.4284                  | -0.7133                 | -0.4174                  | -0.1489                  |                        | -0.5068                 |
| 1252 | 1       | -1.072                   | -0.1153                  | -0.2548                 | -0.4766                 | -1.151                   | -0.6521                  | -0.44                  | -1.06                   |
| 1253 | 1       | 0.3625                   | -0.0003125               | 0.7302                  | -0.6816                 | 0.5244                   | -0.3771                  | 0.415                  | -0.435                  |
| 1254 | 1       | -0.0925                  | -0.9553                  |                         | 0.5634                  | 0.2494                   |                          |                        | 0.63                    |
| 1255 | 1       | 0.1124                   | 0.01959                  | -0.0199                 | -0.2217                 | -0.8757                  | 1.023                    |                        | -0.4351                 |
| 1256 | 1       | 0.2375                   | -1.035                   | 0.3452                  | -0.4866                 | 0.3994                   | -0.3521                  |                        | 0.53                    |
| 1257 | 1       | -0.5925                  | 0.4047                   | 0.0352                  | -0.2066                 | -0.9706                  | -0.6721                  |                        |                         |
| 1258 | 1       | -0.4494                  | -0.8022                  | 0.2483                  | 0.3866                  | -0.2575                  | -0.01898                 |                        | 0.4931                  |
| 1259 | 1       |                          | 0.2314                   | 0.03191                 | -0.9598                 | -0.8139                  |                          |                        | 1.067                   |
| 1260 | 1       | -0.1477                  | -0.02051                 | -7.28E-12               | 0.008242                | -0.9258                  | -0.5073                  |                        | 2.285                   |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1261 | 1       | -0.3575                  | -0.0003125               | -0.1098                 |                         | 0.4544                   | 1.193                    | 0.135                  | -0.475                  |
| 1262 | 1       | -1.264                   | -1.027                   | 0.7532                  | 1.041                   | 0.4174                   | -0.3341                  |                        | 2.788                   |
| 1263 | 1       | 0.2875                   |                          | -0.6348                 | 1.223                   | -0.1406                  | 0.5879                   | 2.42                   | 2.55E-09                |
| 1264 | 1       | -0.405                   | -1.728                   | 0.2527                  | 2.091                   | 0.8269                   | 0.4554                   | 0.6575                 | -0.3225                 |
| 1265 | 1       | -1.588                   | -1.02                    | 0.03004                 | -0.03172                | -0.3058                  | -0.7473                  | 0.6948                 | -0.2552                 |
| 1266 | 1       | 0.1119                   | -0.5009                  | -0.9104                 | -0.8222                 |                          | 0.3923                   | 0.6944                 | -0.3456                 |
| 1267 | 1       | -0.1981                  | 0.4191                   | 0.1996                  | 1.108                   | -0.2863                  | 1.272                    |                        | -0.03563                |
| 1268 | 1       | -0.5469                  | 0.2003                   | 0.9408                  | -0.1509                 | 1.315                    | -0.1265                  |                        | -0.8444                 |
| 1269 | 1       | -0.6134                  | -0.4262                  |                         | 0.002578                | 1.039                    | 0.367                    | -1.331                 |                         |
| 1270 | 1       | 0.3368                   | -0.136                   | -0.5355                 | -0.6373                 | -0.2713                  | -0.3228                  | 1.829                  | -0.2307                 |
| 1271 | 1       | -0.0925                  | 0.5347                   | -0.3548                 | 0.04344                 | 0.4294                   | 0.2479                   | -0.07                  | -0.09                   |
| 1272 | 1       | 0.0375                   | -0.8153                  | 0.1152                  | 1.243                   | 0.7794                   | 0.6479                   |                        | -1.64                   |
| 1273 | 1       | -0.4269                  | 0.0003125                |                         | -0.0009374              | -0.725                   | -0.4265                  | -0.2644                | -0.1744                 |
| 1274 | 1       | 0.06625                  | 0.1334                   | 0.9439                  | -0.5078                 | 0.1181                   | -0.6834                  |                        | 0.1987                  |
| 1275 | 1       | 0.55                     | -0.002812                | 0.1077                  | -0.3841                 | 1.592                    | 0.02039                  | -0.2075                | 0.5625                  |
| 1276 | 1       | 0.06625                  | 0.4434                   | 0.6439                  | 0.5022                  | -0.2019                  | -0.5334                  |                        | -0.4013                 |
| 1277 | 1       | -1.011                   | -1.903                   | 0.4571                  | 1.345                   | 2.741                    | -0.8702                  | 2.102                  | -0.978                  |
| 1278 | 1       | -0.8525                  |                          | 0.8552                  | 1.243                   | 2.749                    | -0.9921                  | 2.7                    | -0.24                   |
| 1279 | 1       | -0.09687                 | 0.06031                  | 2.271                   | 1.309                   | -0.015                   | -0.1765                  | -0.07437               | 0.3856                  |
| 1280 | 1       | -0.465                   | -0.1178                  | 2.203                   | 1.731                   | 1.527                    | 0.4654                   | 1.728                  | -0.7625                 |
| 1281 | 1       | -0.3025                  | -1.095                   | -0.5148                 | 0.2434                  | -0.8106                  |                          | 1.38                   | 1                       |
| 1282 | 1       | -0.3525                  | -0.08531                 | -0.9448                 | -0.4066                 | -1.121                   | -0.5421                  | -2.65E-09              | 0.29                    |
| 1283 | 1       | -0.6386                  | -0.05141                 | 0.1491                  | -0.4827                 | 0.6233                   |                          | -0.8661                | 0.4239                  |
| 1284 | 1       | 0.6086                   | 1.066                    | 1.706                   | 0.4445                  | -0.4595                  | -2.071                   | 0.09109                | -0.7989                 |
| 1285 | 1       | -0.2366                  | -0.9594                  | 0.5111                  | -0.8006                 | -0.01469                 | -0.7662                  |                        | -0.4541                 |
| 1286 | 1       | 0.195                    | -0.1678                  | -0.9173                 | -0.5809                 | -0.2331                  | -0.3546                  | -0.0925                | -0.0025                 |
| 1287 | 1       | -0.6481                  | -0.7209                  | -0.9504                 | -0.06219                | -0.1463                  | -0.1077                  | -0.2156                | 0.2944                  |
| 1288 | 1       | -0.0725                  | 0.05469                  | -0.1048                 | -0.6866                 | -0.3206                  | -0.3721                  | 0.14                   | -0.19                   |
| 1289 | 1       | -0.0325                  | 0.6847                   | -0.2148                 | -0.2366                 | -0.9406                  | -1.042                   | -0.23                  | -0.19                   |
| 1290 | 1       | -0.2277                  | -0.6905                  | -5.53E-12               | -0.3518                 | -0.5958                  |                          | -0.1352                | -0.2652                 |
| 1291 | 1       | -0.04797                 |                          | -0.9303                 | -1.502                  | 0.2339                   |                          |                        | 0.1645                  |
| 1292 | 1       | -0.9903                  | -1.613                   | -0.7126                 | -0.4544                 | -0.3584                  | -0.3099                  | 0.3822                 | 0.2122                  |
| 1293 | 1       | -0.1984                  | -0.2312                  | 0.2393                  | -0.7624                 | -0.2165                  | -0.388                   | -0.06586               | 0.9841                  |
| 1294 | 1       | -0.01703                 | 0.2102                   | 0.2907                  | 0.08891                 | -0.3852                  |                          | 0.09547                | -0.09453                |
| 1295 | 1       | 0.5219                   | -1.071                   | 0.4196                  | -0.7322                 |                          | -0.5277                  |                        | 0.7944                  |
| 1296 | 1       | 0.1278                   | 0.395                    | -0.1745                 | -0.1963                 | 0.1097                   | -0.2918                  | 0.08031                | -0.3597                 |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1297 | 1       | 0.4375                   | -0.6053                  | -0.6248                 | -1.447                  | 0.3794                   | -0.1721                  | -0.05                  | 0.13                    |
| 1298 | 1       | 0.3275                   | -0.1253                  | 0.0152                  | -0.4666                 | 0.1894                   | -0.7221                  | -2.65E-09              | 0.55                    |
| 1299 | 1       | 0.4563                   | -0.2966                  | -1.126                  | -0.1878                 | 0.2281                   | -0.2434                  | -0.02125               | 0.1687                  |
| 1300 | 1       | 1.028                    | 0.4447                   | 0.9352                  | -0.6366                 | 2.129                    | -0.3421                  | -0.55                  | 0.34                    |
| 1301 | 1       | -0.3976                  | -1.05                    | -0.0988                 | -0.4616                 | -0.6657                  | 0.3828                   | 0.6049                 | -0.2651                 |
| 1302 | 1       | 1.315                    | 1.762                    | 0.2325                  | -0.6992                 | -0.2533                  | 0.09523                  |                        | 0.8273                  |
| 1303 | 1       | -0.1466                  | -0.5394                  | 0.5111                  | -0.05062                | 3.325                    | -0.2562                  |                        | 0.09594                 |
| 1304 | 1       | 0.2769                   | -0.5559                  | 0.6346                  | -0.6372                 | 0.2387                   | 0.1373                   | -0.3406                | 0.9494                  |
| 1305 | 1       | -0.1295                  | 0.6277                   | 0.6582                  | 0.3264                  | -1.548                   | 0.9309                   | -1.397                 | 0.02297                 |
| 1306 | 1       | -0.19                    | 1.017                    | -0.3623                 | -1.744                  | -0.9681                  | -1.29                    |                        | -0.2675                 |
| 1307 | 1       | -0.802                   | -0.5748                  | 0.4557                  | -0.346                  | 1.33                     | 1.428                    | 1.031                  | 0.8605                  |
| 1308 | 1       | -0.5401                  | 0.2671                   | -0.002402               | 0.00584                 | 1.002                    | 1.24                     | 0.7524                 | 0.6024                  |
| 1309 | 1       | -0.195                   | -0.5078                  | 0.7627                  | -0.5691                 | 0.8369                   | -1.485                   | 1.157                  | 0.9575                  |
| 1310 | 1       | -0.1262                  | 0.03094                  | -1.109                  | -0.8203                 | 0.3356                   | 1.594                    | -0.7637                | 0.4563                  |
| 1311 | 1       |                          | 0.4209                   | 0.2014                  | -0.6103                 | -1.344                   | -0.2759                  | 0.9663                 | 0.1863                  |
| 1312 | 1       | 0.0909                   | 0.4581                   | 0.1786                  | -0.3032                 | -0.9072                  | -0.6087                  | 0.2134                 | 0.1634                  |
| 1313 | 1       | 0.3511                   | 0.07828                  | -0.08121                | -0.002969               | -0.967                   |                          |                        | -0.4264                 |
| 1314 | 1       | 0.3996                   | 0.8268                   | 0.2073                  | -0.6145                 | 0.3215                   | -1.26                    | 1.162                  | 1.652                   |
| 1315 | 1       | 0.1675                   | 0.2547                   | -0.9948                 | 0.04344                 | 0.7294                   | -0.1321                  | -0.58                  | -3.85E-09               |
| 1316 | 1       | -0.1875                  | -1.71                    | 0.1902                  | 0.5384                  | 0.6444                   |                          |                        | 0.075                   |
| 1317 | 1       | -0.06094                 | -1.474                   | -0.2632                 | -1.505                  | 0.7709                   | -0.9005                  | -2.348                 | 2.232                   |
| 1318 | 1       | -0.2058                  | -1.459                   | -1.108                  | -0.6098                 | -0.1839                  | -0.4754                  | -1.173                 | 0.9267                  |
| 1319 | 1       | -0.2345                  | 0.2727                   | -0.2168                 | 0.4115                  | 0.7974                   | -0.3441                  |                        | 1.168                   |
| 1320 | 1       | 0.1932                   | 0.5604                   | -0.3691                 | -2.431                  | 0.2151                   | -0.8564                  | -2.474                 | 0.0357                  |
| 1321 | 1       | 1.232                    | 0.6592                   | -0.4203                 | -0.312                  | -0.2061                  | -0.3576                  | -1.995                 | 0.2845                  |
| 1322 | 1       | 0.1161                   | 0.4733                   | -0.2462                 | -0.01797                | -1.752                   | -1.114                   | -0.7314                | 0.3486                  |
| 1323 | 1       | -0.5653                  |                          |                         | 0.7106                  | -0.3634                  | -0.2149                  | 0.3672                 | -0.1728                 |
| 1324 | 1       | 0.5475                   | 0.6847                   | -0.5748                 | -0.08656                | 0.2294                   | 0.06789                  | 0.97                   | -0.1                    |
| 1325 | 1       | 0.3136                   | -0.6392                  | -0.5387                 | -0.8505                 | 0.3855                   | -0.476                   | 0.5161                 | -0.2539                 |
| 1326 | 1       | 0.0875                   | -0.1253                  | 0.9352                  | 1.643                   | 0.2694                   | 1.168                    | 1.06                   | 1.15                    |
| 1327 | 1       | 0.7514                   | 0.3486                   | 0.1691                  | 1.127                   | -0.1467                  | 0.4218                   |                        | 1.374                   |
| 1328 | 1       | -0.6487                  | 0.2084                   | -0.1611                 | -0.1628                 | -0.2169                  | 0.09164                  | -0.00625               | 0.2938                  |
| 1329 | 1       | 0.1363                   | -0.04656                 |                         | 0.4822                  | -0.3319                  | 0.3866                   | -0.4313                | -0.05125                |
| 1330 | 1       |                          | 0.1204                   | 0.1609                  | 1.139                   | 0.4951                   | 1.914                    | -0.5143                | -0.7943                 |
| 1331 | 1       | 0.1842                   | 1.031                    | -0.8281                 | 0.1102                  | 0.4461                   | 0.9246                   | -0.1033                | -0.08328                |
| 1332 | 1       | 0.3288                   | -0.6841                  | -0.09355                | 0.4147                  | 0.000625                 | -0.03086                 | 0.5912                 | 0.00125                 |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 1333 | 1       | -0.2769                  | -0.9197                  | 1                       | 0.07906                 | 1                        | 1                        | -0.4244                | -0.2944                 |
| 1334 | 1       | 0.009688                 | 0.1869                   | 0.5374                  | -0.3444                 | 0.155                    | 0.1001                   |                        | -0.9478                 |
| 1335 | 1       | -0.3545                  | -1.627                   | -0.5468                 | 0.8215                  | 0.5474                   | 0.3159                   | 0.108                  | -0.292                  |
| 1336 | 1       | -0.3102                  | -0.103                   | 0.08746                 | 1.396                   | 0.5216                   |                          | -0.1177                | -0.2477                 |
| 1337 | 1       | -0.3681                  | -1.181                   | -0.3204                 | -0.3622                 | -0.2063                  | -0.03773                 | -1.286                 | -0.8156                 |
| 1338 | 1       | 0.04203                  | -0.4508                  | -0.6403                 | 0.178                   | -0.1061                  | -0.1076                  | -0.06547               | -0.1255                 |
| 1339 | 1       | 0.1819                   | 0.7291                   | -0.8704                 | -0.5122                 | -0.1046                  | 0.2123                   |                        | -0.8556                 |
| 1340 | 1       | -0.5325                  | -                        | 0.9852                  | -1.707                  | -0.7206                  | 0.04789                  | -1.38                  |                         |
| 1341 | 1       | 0.2255                   | -0.6473                  | -0.5068                 | -1.299                  | -0.7727                  | -1.004                   | -0.412                 | -1.012                  |
| 1342 | 1       | -0.5881                  | -1.621                   | 0.7796                  |                         | -0.6363                  | -0.4577                  |                        | -0.3556                 |
| 1343 | 1       | 0.2375                   | 0.2047                   | 0.8352                  | -0.2166                 | 0.4794                   | -0.2121                  |                        | 0.47                    |
| 1344 | 1       | 0.3415                   |                          | -0.3808                 | -0.6826                 | 1.233                    | 0.9919                   | 0.514                  |                         |
| 1345 | 1       | 0.7825                   | -0.3303                  | 0.2502                  | -0.1415                 | 0.4544                   | 1.253                    | 0.665                  | 0.425                   |
| 1346 | 1       | 0.2433                   | -0.1095                  |                         | 0.7293                  | -0.4448                  | -0.5263                  | 0.8058                 | 0.3158                  |
| 1347 | 1       | -0.904                   |                          | 1.274                   | 1.332                   | -1.732                   | -1.734                   |                        |                         |
| 1348 | 1       | -0.2429                  | -0.4057                  | 2.055                   | 1.193                   | -0.941                   | -0.6925                  | -0.0003516             |                         |
| 1349 | 1       | -0.6931                  | -0.3459                  | 0.4746                  | 0.6128                  | -0.4513                  | -0.2227                  |                        |                         |
| 1350 | 1       | -0.4127                  | -0.7255                  | -0.335                  | 1.643                   | -0.6708                  | -0.4223                  |                        | 1.32                    |
| 1351 | 1       | 0.2125                   | -0.0003125               | -0.2798                 | -0.2816                 | -0.1256                  | -0.3571                  | -0.905                 | 0.055                   |
| 1352 | 1       | 1.18                     | 0.7077                   | -0.1518                 | -0.8936                 | 1.492                    | 1.141                    | -0.417                 | 0.193                   |
| 1353 | 1       | -0.01859                 |                          |                         | -1.133                  | -0.3667                  | -0.3682                  | 1.144                  | -0.5661                 |
| 1354 | 1       | -0.2175                  | -0.8503                  | -0.2598                 | -1.032                  | 0.04438                  | -0.08711                 |                        | -0.475                  |
| 1355 | 1       | 0.1775                   | -0.7453                  | 0.0452                  | -1.297                  | 0.06938                  | -0.3821                  | -0.93                  | -3.85E-09               |
| 1356 | 1       | 0.1834                   | -0.1394                  | 0.4411                  | -1.171                  | 0.1553                   | -0.3162                  | -0.6041                | -0.1441                 |
| 1357 | 1       | 0.5825                   | -0.9003                  | -0.9698                 | -0.06156                | -0.6256                  | 0.7229                   | -1.125                 | -0.475                  |
| 1358 | 1       | -0.1301                  | -1.803                   | -0.0124                 | 0.3458                  | 0.1318                   | 0.4403                   |                        | 1.112                   |
| 1359 | 1       | 0.2658                   | -0.07703                 | -0.4165                 | -0.5283                 | -0.1723                  | -0.7438                  |                        | 0.7583                  |
| 1360 | 1       | 0.1175                   | 0.8647                   | 0.3152                  | -0.8166                 | -0.1806                  | 0.1379                   | -0.97                  | 0.35                    |
| 1361 | 1       | -0.06375                 | 0.6634                   | -0.5361                 | -0.4478                 | -0.09188                 | -0.1434                  | -0.6213                | -0.4613                 |
| 1362 | 1       | 0.1875                   | 0.2547                   | -0.4148                 | -0.3766                 | -0.3506                  | -0.5521                  | 0.34                   | 1.55                    |
| 1363 | 1       | -0.3135                  |                          | 1.514                   | -0.1876                 | 0.09836                  | 0.03688                  | 0.109                  | 0.829                   |
| 1364 | 1       | -0.2325                  | -0.4853                  | 1.485                   | -0.4566                 | -0.05063                 |                          | -0.03                  | 0.71                    |
| 1365 | 1       | -0.2132                  | -0.896                   | 0.04449                 | 1.023                   | 1.009                    | 0.8472                   | 0.4293                 | -0.9007                 |
| 1366 | 1       | 0.05477                  | -0.688                   | 0.8325                  | 0.5007                  | -0.7834                  | 0.4452                   | -0.7627                | 1.907                   |
| 1367 | 1       | 0.0675                   | -1.245                   | 1.445                   | 0.2634                  | -3.511                   | -0.8621                  | -0.12                  | 1.24                    |
| 1368 | 1       | 1.343                    | 0.8997                   | 0.4802                  | -1.272                  | 0.1144                   | 0.09289                  |                        |                         |



Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1369 | 1       | 1.835                    | 1.722                    | 1.222                   | 1.101                   | -2.034                   | 0.495                    |                        | -0.2629                 |
| 1370 | 1       | -0.3725                  | 0.5547                   | -0.5148                 | 0.5734                  | -0.4606                  | 0.7779                   |                        | -0.2                    |
| 1371 | 1       | -0.3925                  | -1.115                   | -1.635                  | -0.5766                 | -0.2006                  | 0.1179                   | -2.52                  | -0.35                   |
| 1372 | 1       | -0.0075                  | 0.6897                   | -0.2098                 | 0.5084                  | -0.2656                  | -0.2171                  | 0.015                  | 0.045                   |
| 1373 | 1       | 0.3975                   | -0.06531                 | 1.125                   | -0.6766                 | 1.009                    | 2.248                    | -0.94                  | 0.62                    |
| 1374 | 1       | 0.7925                   | 1.07                     | 0.1602                  | 1.048                   | 0.3744                   | -0.2471                  | 0.075                  | -0.385                  |
| 1375 | 1       | 1.078                    | 1.775                    | 0.3252                  | -0.02656                | 0.4794                   | -0.01211                 | -1.65E-08              | -0.55                   |
| 1376 | 1       | 0.02391                  | 0.4111                   | -0.1584                 | -1.29                   | 0.2558                   | -0.0157                  | -0.7736                | -0.4836                 |
| 1377 | 1       | 0                        |                          | -0.1723                 | 0.1359                  | 0.3719                   | -0.4796                  | 0.0725                 | 0.1625                  |
| 1378 | 1       | -0.1666                  | -0.8894                  | 0.1511                  | -0.6606                 | -1.865                   |                          | -0.5941                | 0.8859                  |
| 1379 | 1       | -0.0277                  | -0.7805                  | -4.95E-12               | -0.1618                 | -1.796                   | -1.147                   | -1.025                 | 0.4948                  |
| 1380 | 1       | -1.477                   | -2.58                    | 0.3002                  | -0.1016                 | -1.516                   | -0.1071                  | 1.025                  | -0.475                  |
| 1381 | 1       | -0.5137                  | -0.006563                | -0.4161                 | 0.7622                  | -0.4419                  | 0.2766                   | 0.6287                 | -0.2313                 |
| 1382 | 1       | 0.7431                   | 0.5803                   | 0.5008                  | 1.299                   | 0.555                    | 0.6035                   | 0.9356                 | 1.386                   |
| 1383 | 1       | 0.5475                   | 2.155                    | -0.2148                 |                         | -0.3606                  | -0.3421                  | 0.15                   | 0.6                     |
| 1384 | 1       | 0.0275                   | 0.4047                   | 0.0652                  | 1.063                   | -0.4706                  | 0.1979                   | -0.69                  | 1.01                    |
| 1385 | 1       | 0.2475                   | 0.3047                   | -0.3348                 | 0.2434                  | -0.7706                  | -0.2721                  | -1.52                  | -0.47                   |
| 1386 | 1       | 1.039                    | 1.546                    | 0.3168                  | -0.555                  | 0.05094                  |                          | -0.5684                | -0.08844                |
| 1387 | 1       | -0.6325                  | -1.705                   | 0.2852                  | -0.7666                 | 1.199                    | 1.718                    | -1                     | -0.41                   |
| 1388 | 1       | -0.4831                  | -0.6459                  | 0.1546                  | -0.5372                 | 1.179                    | 0.7573                   |                        | -0.6306                 |
| 1389 | 1       | -0.6787                  | -1.062                   | 0.7989                  | -0.6428                 | -1.117                   | -0.7984                  |                        | 0.2838                  |
| 1390 | 1       | -0.5127                  | -0.3255                  |                         | 0.9533                  | 0.7092                   | 0.8477                   | 0.3098                 | 0.3998                  |
| 1391 | 1       | 0.04215                  | -0.2207                  | 0.1098                  | 0.3881                  | 0.584                    | 0.4225                   | 0.3446                 | 0.5846                  |
| 1392 | 1       | -0.2937                  | 0.1534                   | 0.04395                 | 0.7322                  | 0.2181                   | 0.3366                   | 1.179                  | 0.04875                 |
| 1393 | 1       | -0.6231                  | -0.3259                  | 0.1446                  | 0.6428                  | 0.5387                   | 0.5273                   | 0.3594                 | -0.4706                 |
| 1394 | 1       | -0.5966                  | -1.459                   | -0.1989                 | -1.041                  | 0.03531                  | -0.2062                  | 2.396                  | -0.2041                 |
| 1395 | 1       | -0.3725                  | 0.07469                  | 0.6952                  | 0.2134                  | -0.9406                  | -0.3421                  | 0.09                   | 0.03                    |
| 1396 | 1       | -0.4925                  | -0.2453                  | 0.5152                  | -0.01656                | -0.4906                  | -0.2721                  | 0.07                   | 0.09                    |
| 1397 | 1       | 0.0325                   | 0.7097                   | -0.0498                 | -0.07156                | -0.7156                  | -0.4171                  | -0.195                 | 0.625                   |
| 1398 | 1       | -1.005                   | -1.848                   | 0.3025                  |                         | 0.4267                   | 0.6152                   | 0.5973                 | -0.4227                 |
| 1399 | 1       | -0.3747                  |                          | 0.373                   | 0.5512                  | -0.4828                  | -0.1643                  | 0.8178                 | 0.7578                  |
| 1400 | 1       | 0.1223                   | -0.09051                 | -1.14E-11               | 0.1282                  | -0.3558                  | -0.5173                  | -0.1152                | -0.1352                 |
| 1401 | 1       | -0.1125                  | -0.02531                 | -0.2048                 | 0.5634                  | -0.1806                  | 0.02789                  | -0.77                  | -0.04                   |
| 1402 | 1       | -0.3909                  | -0.08375                 | 0.2768                  | -0.845                  | 0.3709                   |                          | 0.5416                 | -0.4084                 |
| 1403 | 1       | -0.3325                  | 0.05469                  | 0.1852                  | -0.3166                 | 0.2194                   | 0.05789                  | 0.64                   | -1.15                   |
| 1404 | 1       | -0.3264                  | -0.6292                  | -0.4387                 | -0.07047                | 0.3655                   | 0.304                    | -0.4139                | -0.2639                 |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 1405 | 1       | -0.3505                  | -1.063                   | -0.2029                 | 0.4154                  | 0.2713                   | 0.1298                   | -0.148                 | 1                       |
| 1406 | 1       | -0.4831                  | -1.116                   | -0.6954                 | 0.08281                 | -1.341                   | -1.793                   | 0.6494                 | -0.158                  |
| 1407 | 1       | -0.3025                  | -1.985                   | 0.0452                  | 0.3534                  | -0.6306                  | -0.6021                  | -0.24                  | 0.6694                  |
| 1408 | 1       | 0.6703                   | 0.6375                   | 0.01801                 | -0.9238                 | 0.8122                   | 0.0007031                | -0.01719               | 0.08                    |
| 1409 | 1       | -0.542                   | -1.215                   | -0.4843                 | -0.03609                | 0.04984                  | -0.9216                  | 0.02047                | -0.05719                |
| 1410 | 1       | -0.4341                  |                          | -0.4164                 | 0.1018                  | -0.08227                 |                          |                        | -0.3695                 |
| 1411 | 1       | -0.8825                  | -0.7953                  |                         | 0.07344                 | -0.05062                 | -0.1221                  | 0.21                   | -0.3716                 |
| 1412 | 1       | -0.02656                 | 0.2906                   |                         | -0.2406                 | -0.4547                  |                          | -0.2441                |                         |
| 1413 | 1       | -0.3868                  | 0.3104                   | -0.5091                 | -0.5709                 | -0.3049                  | -0.5364                  |                        | -0.7041                 |
| 1414 | 1       | 0.03141                  | 0.3886                   |                         | 0.7673                  | -0.03672                 | 0.2218                   | 0.2239                 | 0.1657                  |
| 1415 | 1       | -0.3475                  | -0.0003125               | -0.0498                 | 0.1184                  | 0.6744                   | 0.6029                   | -0.345                 | 0.1039                  |
| 1416 | 1       | 0                        | 0.1372                   | 0.1677                  | 0.2759                  | 0.1919                   |                          | -0.1675                | -0.335                  |
| 1417 | 1       | -0.3069                  | -0.8197                  | -0.1292                 | -0.1709                 | 1.445                    | 0.8435                   | -0.4644                | -0.3475                 |
| 1418 | 1       | -0.3581                  | -0.2409                  | -2                      | -0.9122                 | -0.7563                  | -0.7077                  | -0.5356                | -0.3944                 |
| 1419 | 1       | 0.1363                   | -0.7766                  | -0.8861                 | -0.5878                 | -0.06187                 | -0.6834                  | -1.401                 | -0.8356                 |
| 1420 | 1       | -0.1503                  | -0.6431                  | -0.7026                 | -0.1444                 | -0.3084                  | -0.07992                 | -0.8978                | -0.8913                 |
| 1421 | 1       | -0.7137                  | -0.9866                  | -0.2761                 | 0.6922                  | 0.4581                   | 0.5266                   | -0.1213                | -0.7978                 |
| 1422 | 1       | 0.1195                   | -0.5934                  | -0.2929                 | 0.5854                  | -0.07867                 | 0.3498                   | -0.348                 | -0.5413                 |
| 1423 | 1       | -0.0375                  |                          | 0.1802                  | 0.008438                | -0.08562                 | 0.2529                   | -0.115                 | 0.342                   |
| 1424 | 1       | -1.135                   | -1.118                   | -1.117                  | 0.0009375               | -0.2131                  |                          |                        | -0.315                  |
| 1425 | 1       | 0.4675                   | 0.2247                   | -1.715                  | -0.1866                 | -0.5106                  | -0.4021                  | -0.39                  | -0.3725                 |
| 1426 | 1       | -0.6164                  | -0.9292                  |                         | -1.58                   | -0.8145                  |                          |                        | -0.35                   |
| 1427 | 1       | -0.0425                  | 0.4947                   | -0.6548                 | -0.03656                | 0.2094                   |                          |                        | -0.29                   |
| 1428 | 1       | 0.1147                   | 0.6419                   | -0.8276                 | -0.1894                 | -0.4334                  | -0.1149                  | -0.6628                | -0.4928                 |
| 1429 | 1       | 0.08859                  | 0.4458                   | -0.8837                 | -0.02547                | -0.3095                  |                          | -0.6189                | -0.5989                 |
| 1430 | 1       | 0.292                    | -0.4408                  | 0.01973                 |                         | -0.3661                  | 0.05242                  | 0.04453                | 0.3445                  |
| 1431 | 1       | 0.1989                   | -1.354                   | 0.1466                  | -0.5552                 | 0.7208                   | 0.009297                 | -0.2786                | 0.2414                  |
| 1432 | 1       | 0.0775                   | 0.4247                   | -0.2948                 | 0.2634                  | -0.1906                  |                          | -0.43                  | -3.85E-09               |
| 1433 | 1       | 0.5775                   | -0.4253                  |                         | 0.3434                  | 0.7294                   | 0.7379                   |                        | -0.77                   |
| 1434 | 1       | -1.102                   | -0.995                   |                         | 0.3037                  | -0.2003                  |                          |                        | -0.9697                 |
| 1435 | 1       | -0.2909                  | -1.694                   | -0.6232                 | -0.115                  | -0.1891                  | -0.4605                  | 0.6616                 | -1.058                  |
| 1436 | 1       | 0.1834                   | 0.1206                   | -1.229                  | 0.03938                 | -0.06469                 | 0.2038                   | -0.4241                | -0.5841                 |
| 1437 | 1       | -0.09578                 | -0.1286                  | -0.3381                 | 0.2502                  | -0.1939                  | -0.01539                 | -0.5133                | -0.2733                 |
| 1438 | 1       | 0.2838                   | 0.6409                   | -0.04855                | 0.2697                  | -0.9544                  | -0.5959                  | -0.07375               | -0.00375                |
| 1439 | 1       | 0.8377                   | 1.515                    | 0.3154                  | 0.5836                  | -1.25                    | -0.962                   | -1.34                  | -0.3698                 |
| 1440 | 1       | 0.1375                   | 0.6647                   | 0.7552                  | 0.1234                  | -0.4506                  | 0.2079                   | 0.18                   | -0.36                   |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1441 | 1       | 0.9668                   | 1.244                    | -0.1255                 | 1.473                   | -0.7313                  | 0.3772                   |                        | -0.6307                 |
| 1442 | 1       | 0.921                    | 1.258                    | -0.00127                | 1.177                   | -0.8571                  | -0.1886                  | -0.1265                | -0.1665                 |
| 1443 | 1       | 1.822                    | 1.919                    | -0.5604                 | -0.3122                 | 1.524                    | 1.012                    | 0.3944                 | 0.04437                 |
| 1444 | 1       | -0.5495                  | 0.1677                   | 0.9982                  | -0.08352                | -0.01758                 | 1.031                    |                        | -0.957                  |
| 1445 | 1       | 1.038                    | -0.05432                 | 0.01619                 | -0.01557                | 0.4304                   | 0.4389                   | -0.249                 | -0.239                  |
| 1446 | 1       | 0.9875                   | 0.06469                  |                         | -0.3666                 | 0.7594                   | 0.1779                   | -0.44                  | -0.11                   |
| 1447 | 1       | 0.188                    | 0.8952                   |                         | -1.696                  | 0.5399                   |                          | -1.649                 |                         |
| 1448 | 1       | -0.003398                | 0.3538                   | -1.926                  | -1.237                  | 0.5685                   |                          | -0.6909                | -1.171                  |
| 1449 | 1       | -0.3397                  | 0.3775                   | -0.112                  | 0.1962                  | -0.1178                  | 0.0007031                | 0.8728                 | 0.4028                  |
| 1450 | 1       | 0.2475                   |                          | -0.4248                 | 0.4134                  | -0.3406                  | 0.9779                   |                        |                         |
| 1451 | 1       | -0.0825                  | 0.6447                   | -1.075                  | -1.447                  | -3.531                   | -3.062                   |                        | 0.19                    |
| 1452 | 1       | -0.5614                  | -0.1442                  | -0.4937                 | -0.5755                 | 0.2505                   | 0.889                    | 1.321                  | -0.6189                 |
| 1453 | 1       | -0.5353                  | -0.06813                 | 0.01238                 | 0.000625                | -1.063                   | 0.1151                   | -0.3328                | -0.04281                |
| 1454 | 1       | -0.4425                  | -1.025                   | -0.7448                 | -0.3066                 | 0.3294                   | -0.002109                | -0.18                  | -0.35                   |
| 1455 | 1       | 0.4353                   | 0.8525                   | -0.227                  | 0.2412                  | 0.5572                   | 0.3657                   | 0.05781                | -0.3422                 |
| 1456 | 1       | -0.6822                  | -1.405                   | 0.5355                  | -0.1763                 | -0.1103                  | 0.3382                   |                        | 0.7503                  |
| 1457 | 1       | 0.3675                   | 0.2547                   | 0.0352                  | -0.1466                 | -0.07063                 | -0.5321                  | -0.09                  | 0.05                    |
| 1458 | 1       | -0.2425                  | 0.3347                   | 0.6452                  | -0.1366                 | 0.4794                   |                          | 0.41                   | -0.27                   |
| 1459 | 1       | -0.4337                  | -1.177                   | 0.09395                 | -0.1578                 | -0.03188                 |                          | -0.4713                | 0.3287                  |
| 1460 | 1       | -0.0025                  | -1.065                   | -0.5848                 | -0.1666                 | -0.3606                  | -0.3121                  | -1.11                  | 0.12                    |
| 1461 | 1       | -0.8868                  | -1.22                    | -0.6491                 | -1.381                  | 0.2251                   | -0.7664                  | -2.974                 | 0.0657                  |
| 1462 | 1       | -0.3825                  | -0.7853                  | -1.525                  | -0.9566                 | 0.1794                   | -0.2221                  | 0.31                   | -0.65                   |
| 1463 | 1       | 0                        | -0.8028                  | 0.7177                  | 1.176                   | 0.2019                   | 1.08                     | -1.208                 | -0.4875                 |
| 1464 | 1       | 0.3286                   | -0.02418                 | 0.2963                  | 0.4746                  | 0.2905                   | 0.579                    |                        | -0.1189                 |
| 1465 | 1       | 0.1969                   | 0.7441                   | 0.3646                  | 0.3628                  | 0.2588                   |                          |                        | -0.5306                 |
| 1466 | 1       | -1.125                   |                          | 0.1425                  | -0.0293                 | -0.6934                  | -0.1448                  | 0.07727                | 0.1173                  |
| 1467 | 1       | -0.1722                  | -0.925                   | 1.976                   | -0.2063                 | -0.8803                  | -0.5818                  | 0.3503                 | 0.8803                  |
| 1468 | 1       | -0.9037                  | -1.277                   | 0.5539                  | 0.4022                  | 1.838                    |                          |                        | -2.381                  |
| 1469 | 1       | -0.7625                  | -1.415                   | 0.4052                  | -0.9466                 | 1.549                    | 0.8379                   | 0.89                   | 0.06                    |
| 1470 | 1       | 0.623                    | -0.3198                  | 1.231                   | -0.711                  | 0.2149                   |                          | -0.4645                | -1.204                  |
| 1471 | 1       | -0.4325                  | -0.3153                  | -0.0948                 | 0.5634                  | 0.2794                   | -0.1221                  | -0.36                  | -0.14                   |
| 1472 | 1       | 0.4906                   | 0.06781                  | 0.4883                  |                         | -0.3475                  | -0.459                   |                        | 0.3331                  |
| 1473 | 1       | 0.08625                  | 0.8334                   | 0.6739                  | 0.1522                  | 0.3981                   | 0.5466                   | -0.02125               | 0.8987                  |
| 1474 | 1       | 0.5386                   | 0.3658                   | 1.066                   | 0.7045                  | 0.7705                   | 0.719                    | -0.04891               | 0.8511                  |
| 1475 | 1       | 1.128                    | 0.4547                   | 0.7652                  | -0.2866                 | 0.9994                   | -0.02211                 | -0.36                  | -0.22                   |
| 1476 | 1       | 0.1675                   | 0.6547                   | 0.7352                  | 1.583                   | -0.4706                  | -0.2221                  | 0.16                   | -0.27                   |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1477 | 1       | 0.3963                   | 1.173                    | -0.1961                 | 0.4122                  | 0.03812                  | 0.4366                   | 0.1687                 | -0.06125                |
| 1478 | 1       | 0.09875                  | -0.3841                  | -0.2736                 | -0.2653                 | 0.000625                 | -0.4809                  | -0.1088                | -0.7788                 |
| 1479 | 1       | 0.6823                   | 1.189                    | -8.44E-12               | 0.2582                  | -0.2458                  | -0.0173                  | 0.0448                 | -0.2952                 |
| 1480 | 1       | 0.3997                   | -0.5331                  | 0.8674                  | -0.3344                 | 2.402                    | 1.24                     |                        | -0.05781                |
| 1481 | 1       | -0.2225                  | -0.8053                  | 0.5452                  | 0.5734                  | 0.2894                   | -0.1221                  | 0.06                   | -0.44                   |
| 1482 | 1       | 0.6786                   | 0.8058                   | 0.1763                  | 0.4845                  | 0.9805                   | 0.929                    | 1.531                  | 0.7511                  |
| 1483 | 1       | 1.298                    | 0.7447                   | 0.2752                  | 0.2934                  | 1.509                    | 0.6479                   | 0.75                   | 0.84                    |
| 1484 | 1       | 0.4398                   | -0.303                   | -0.07246                | -0.3342                 | 0.2517                   | 0.2402                   | -1.178                 | 0.2123                  |
| 1485 | 1       | 0.5514                   | 1.269                    | -0.9309                 | 0.3973                  | 1.523                    | 0.6218                   | -1.366                 | 1.064                   |
| 1486 | 1       | 0.1925                   | 1.08                     | 0.5402                  | -0.5616                 | 0.1944                   | 0.2029                   | -0.515                 | 0.505                   |
| 1487 | 1       | -0.5145                  | -0.5973                  | -0.4668                 | -0.5886                 | -0.04266                 | -0.3541                  | -0.122                 | -0.142                  |
| 1488 | 1       | -0.3475                  | -0.5403                  | -0.7598                 | 0.4084                  | -0.1456                  | 0.9229                   | -0.565                 | 0.025                   |
| 1489 | 1       | -0.7005                  | -1.133                   | -0.3729                 | 0.1154                  | -1.019                   | -0.5402                  | -0.678                 | -0.01805                |
| 1490 | 1       | -0.4129                  | -0.9857                  | -0.8452                 | 0.1531                  | 0.09902                  | 0.3075                   | -0.07035               | -0.07035                |
| 1491 | 1       | 0.1585                   | 0.7257                   | -0.1438                 | 0.4245                  | -0.01961                 | -0.1411                  | 0.481                  | -0.02898                |
| 1492 | 1       | -1.112                   | -1.415                   | -0.1348                 | 0.4634                  | -0.3706                  | -0.3221                  | 1.88                   | -1.45                   |
| 1493 | 1       | -0.3325                  | -0.03531                 | -1.095                  | -0.3766                 | -0.1706                  | -0.08211                 | -0.5                   | -3.85E-09               |
| 1494 | 1       | 0.6975                   | 0.5347                   | -0.2548                 | -0.2666                 | 0.3494                   | 0.1379                   |                        | 0.67                    |
| 1495 | 1       | 1.216                    | 1.613                    | -0.02645                | 0.6018                  | 0.3277                   | 0.5963                   | 0.3184                 | 0.6084                  |
| 1496 | 1       | 0.1523                   | -0.06051                 | -4.37E-12               | 0.7682                  | -0.3358                  | -0.1573                  | -0.3552                | 0.3448                  |
| 1497 | 1       | 0.09172                  | -1.391                   | -0.7206                 | -0.2623                 | -0.02641                 | 0.2421                   | 0.5142                 | 1.104                   |
| 1498 | 1       | -0.1625                  | -0.5553                  | -0.4748                 | -0.6566                 | 0.9094                   | 1.398                    | 0.43                   | 0.74                    |
| 1499 | 1       | -0.2007                  | 0.01646                  | -0.003027               | 1.375                   | -0.07885                 | -0.2103                  | 0.5818                 | -0.1082                 |
| 1500 | 1       | -0.09125                 | -0.8241                  |                         | -0.3753                 | 0.000625                 | 0.05914                  | -0.1388                | -0.3888                 |
| 1501 | 1       | 0.3275                   | 0.4947                   | -0.2948                 | -0.1766                 | 1.309                    | 0.2579                   | -1.69                  | -0.03                   |
| 1502 | 1       | 0.7474                   | -0.2954                  | 0.2251                  | -1.207                  | 1.289                    |                          | -0.2301                | 1.26                    |
| 1503 | 1       | 0.5875                   | 0.9347                   | -0.5848                 | 0.6634                  | -0.09063                 | 0.2879                   | -1.05                  | -0.72                   |
| 1504 | 1       | 1.007                    | 1.274                    | 0.7246                  | 0.3028                  | 0.6887                   | 0.9173                   |                        | 1.139                   |
| 1505 | 1       | 1.028                    | 0.9647                   | 0.1152                  | -2.017                  | -0.9006                  |                          | -1.52                  | 0.16                    |
| 1506 | 1       | 0.7125                   | 1.09                     | 0.5502                  | -2.332                  | -1.026                   | -0.7671                  | -1.385                 | 0.575                   |
| 1507 | 1       | -1.352                   | -2.455                   | -0.0148                 | -0.6666                 | 0.03938                  | -0.2821                  | -0.62                  | 1.2                     |
| 1508 | 1       | -0.485                   | -0.5078                  | -0.0173                 | -0.5891                 | 0.3269                   | 0.3954                   | -0.1525                | 1.238                   |
| 1509 | 1       | -0.4994                  | -0.1722                  | 0.9883                  | 1.007                   | 0.0825                   |                          | 0.2031                 | -0.4169                 |
| 1510 | 1       | 0.445                    | 0.7322                   | 0.3527                  | 0.6309                  | -0.3531                  |                          | -0.7325                | 2.418                   |
| 1511 | 1       | 0.08625                  | 0.1434                   |                         | 1.062                   | -0.1619                  |                          |                        | 0.9587                  |
| 1512 | 1       | -0.4825                  | -0.5353                  | 0.3352                  | 0.2034                  | -0.07062                 | -0.1421                  | -0.95                  | -0.38                   |

Table 1

|      | GWIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|--------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 1513 | 1      | -0.4137                  | -0.5166                  | 0.1439                  | 0.1122                  | -0.3219                  | -0.2534                  | -0.1713                | -0.2913                 |
| 1514 | 1      | -0.5069                  | -1.47                    | -0.2292                 | -1.021                  | 0.115                    | -0.3465                  |                        | -0.5944                 |
| 1515 | 1      | 0.915                    | 1.422                    | -0.9473                 | -0.8991                 | 0.7969                   | 0.6854                   | -1.422                 | 0.3375                  |
| 1516 | 1      | 1.061                    | 1.238                    | -1.471                  | -1.783                  | 0.9031                   |                          |                        | 0.1037                  |
| 1517 | 1      | 0.1595                   | 0.3166                   | -0.7029                 | -0.4646                 | 0.2513                   | -0.1602                  | 0.322                  | -0.488                  |
| 1518 | 1      | -0.06543                 | -0.3582                  | -0.5477                 | 0.9605                  | 0.1464                   | -0.125                   | 0.7571                 | -0.1329                 |
| 1519 | 1      | -0.546                   | -0.7988                  | 0.2817                  | 0.02992                 | 0.9959                   | 0.2744                   | 0.3365                 | -0.8435                 |
| 1520 | 1      | -0.4353                  | -                        |                         | -0.2994                 | -0.1434                  | -0.1849                  |                        |                         |
| 1521 | 1      | 0.5677                   | -1.015                   | -0.1946                 | 1.314                   | -0.6005                  | -0.442                   | -0.01984               | -0.8098                 |
| 1522 | 1      | -0.3264                  | -0.2892                  | 0.2213                  | 0.4695                  | -0.2345                  | -1.016                   | -0.7039                | -0.7039                 |
| 1523 | 1      | 0.0575                   | -0.7253                  | -0.4748                 | -0.8966                 | -0.9806                  | -0.7221                  |                        | 0.54                    |
| 1524 | 1      | -0.4686                  | -1.031                   | -1.031                  | -0.6927                 | 0.06328                  | -0.008203                | 0.09391                | -1.036                  |
| 1525 | 1      | -1.073                   | -2.976                   | -0.1755                 | -0.8773                 | -1.291                   | -1.513                   | -0.8307                | -0.5207                 |
| 1526 | 1      | -0.2803                  | -0.6131                  | -0.6726                 | -0.1844                 |                          | -0.8099                  | -0.4878                | -0.5678                 |
| 1527 | 1      | 1.796                    | 1.893                    | 0.06387                 | -0.07789                | 1.308                    | 0.09656                  | -0.8213                | 1.009                   |
| 1528 | 1      | 0.5814                   | -0.2514                  | 0.5991                  | -0.4627                 | -1.237                   | 0.3618                   | 0.1339                 | -0.1561                 |
| 1529 | 1      | -0.7114                  | -0.6742                  | 0.2963                  | -0.2655                 | 0.8005                   | 0.519                    |                        | 0.01109                 |
| 1530 | 1      | 0.01484                  | 0.05203                  | -0.7675                 | -1.209                  | 0.1767                   | -0.4048                  | -0.4227                | -0.4627                 |
| 1531 | 1      | 0.02664                  | -0.5862                  | -0.5457                 | 1.693                   | -0.3515                  | -0.543                   | 0.6391                 | -0.6009                 |
| 1532 | 1      | -0.5525                  | 0.1747                   | 0.7952                  | 0.7834                  |                          | -0.05211                 | 0.88                   | -0.56                   |
| 1533 | 1      | 0.2719                   | 0.1691                   | -0.9804                 | 0.7178                  | -0.7562                  | -0.2477                  | 0.1544                 | 0.2644                  |
| 1534 | 1      | 0.0575                   | 0.7647                   | -1.015                  | 0.4934                  | -0.6806                  |                          | 2.65E-09               | 0.09                    |
| 1535 | 1      | 0.8744                   | -0.3984                  | -1.048                  | 0.6503                  | -0.4937                  | -0.6252                  | -0.09312               | 0.04688                 |
| 1536 | 1      | 0.04336                  | 0.6405                   | -0.3089                 | -0.8507                 | 1.025                    | 0.9538                   | 0.7659                 | 1.016                   |
| 1537 | 1      | -0.07219                 |                          | 0.05551                 | 0.1437                  | -0.1103                  | -0.7218                  |                        | 0.6403                  |
| 1538 | 1      | 0.00875                  | 1.106                    | 1.146                   | 0.3847                  | 1.901                    | 1.759                    | 0.03125                | 1.971                   |
| 1539 | 1      | 0.00125                  | 0.1084                   | 0.7589                  | 0.2172                  | 1.473                    |                          | 0.01375                | 1.724                   |
| 1540 | 1      | -0.04664                 | -0.3195                  | 0.7911                  | 0.1293                  | 0.9752                   | 1.464                    | 0.04586                | 1.826                   |
| 1541 | 1      | 0.1319                   | 0.5591                   | 0.3196                  | 0.6878                  | 0.2438                   | -0.09773                 | 0.3944                 | 1.184                   |
| 1542 | 1      | 0.3047                   | 0.8119                   | 1.222                   | 1.331                   | 0.2366                   | 0.8351                   |                        | -0.1528                 |
| 1543 | 1      | -0.6277                  | -0.7405                  | -1.19E-11               | -0.6518                 | 0.1542                   | -0.1973                  | 0.8148                 | 0.6148                  |
| 1544 | 1      | -0.1525                  | -0.2753                  | 0.2952                  | 0.5934                  | 0.2594                   | -0.7021                  | 1.39                   | 0.62                    |
| 1545 | 1      | -0.1737                  | -0.5966                  | -0.2461                 | 0.3122                  | 0.07813                  |                          | 1.249                  | 0.5587                  |
| 1546 | 1      | 0.4614                   | 0.8586                   | 0.3691                  | -0.6927                 | 1.143                    | 0.7318                   | -0.6061                | -0.3361                 |
| 1547 | 1      | 0.9431                   | 0.1903                   | -1.249                  | -0.4909                 | -0.005                   | 0.8835                   | 0.1756                 | 1.176                   |
| 1548 | 1      | -0.1245                  | -0.2573                  | 0.4132                  | -0.4485                 | -0.06258                 | 0.4359                   | -0.06195               | 0.318                   |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1549 | 1       | -0.5437                  | -0.5166                  | -0.2461                 | -0.5678                 | 1.278                    | 0.9266                   | 1.089                  | -0.1213                 |
| 1550 | 1       | -0.5762                  | -0.5791                  | -0.9386                 | -0.2403                 | 0.1756                   | 0.1041                   | -0.6438                | -0.9238                 |
| 1551 | 1       | -0.0825                  | 0.2247                   | -1.325                  | -0.4866                 | -0.9006                  |                          | -0.01                  | -1.53                   |
| 1552 | 1       | 0.7312                   | -1.392                   | 0.05887                 | -0.02289                | -0.08695                 | 0.4916                   |                        | 0.3537                  |
| 1553 | 1       | -0.2186                  | -0.7914                  | -0.3709                 | 0.007344                | -0.1467                  | 0.0418                   | -0.03609               | 0.3139                  |
| 1554 | 1       | 0.5875                   | 1.015                    |                         | 0.01344                 | 0.6794                   |                          | 0.58                   | 0.18                    |
| 1555 | 1       | -0.6633                  | -2.006                   | -0.6056                 | -0.08734                | 0.008594                 | 0.1871                   | -0.05078               | -0.2608                 |
| 1556 | 1       | -0.5225                  | -0.5253                  | -0.0248                 | -0.4566                 | 0.2794                   | -0.3321                  | -0.21                  | 0.24                    |
| 1557 | 1       | -0.7587                  | -0.09156                 | 0.5289                  | 0.5872                  | 0.02313                  |                          | -0.09625               | 0.00375                 |
| 1558 | 1       | 0.1625                   | -0.1503                  | -0.0998                 | -0.3816                 | 1.904                    |                          | -0.155                 | 0.015                   |
| 1559 | 1       | 0.1545                   | 0.3616                   | -0.1179                 | 0.03039                 | 1.876                    | 1.155                    | 0.117                  | -0.03305                |
| 1560 | 1       | -0.8474                  | -0.2702                  | -0.3697                 | 0.2286                  | 0.8945                   | 1.213                    | -0.2249                | -0.7049                 |
| 1561 | 1       | -0.7423                  |                          | 0.1754                  | 1.074                   | 0.9795                   | 1.638                    | 0.2102                 |                         |
| 1562 | 1       | -0.6566                  | -0.3695                  | 0.03105                 | 0.5393                  | 1.015                    | 1.124                    | -0.2241                | -0.6741                 |
| 1563 | 1       | -0.06891                 | 0.008281                 | -0.08121                | 0.377                   | 0.773                    | 0.6915                   | -1.056                 | -0.03641                |
| 1564 | 1       | -1.368                   | -1.781                   | -0.5503                 | -0.04203                | -0.2761                  | -0.6476                  | 0.1645                 | -0.1755                 |
| 1565 | 1       | -1.404                   | -1.227                   | -0.6361                 | 0.8122                  | 0.06813                  |                          | 0.3587                 | -0.9013                 |
| 1566 | 1       | -1.317                   | -0.7395                  | -0.479                  | 1.009                   | 0.1252                   |                          | 0.2058                 | -0.2142                 |
| 1567 | 1       | -0.4686                  | 0.4686                   | -1.031                  | -1.293                  | -0.6267                  | -0.1982                  | -0.3061                | -1.016                  |
| 1568 | 1       | -0.3453                  | 0.3319                   |                         | -1.319                  | -0.3134                  |                          | 0.7772                 | -1.293                  |
| 1569 | 1       | -0.8225                  | -0.3953                  | 0.5852                  | 0.5434                  | -0.2806                  | 0.7979                   | -0.84                  | -0.23                   |
| 1570 | 1       | 0                        | 0.5472                   | 0.3477                  | -0.004063               | 0.1319                   | -0.07961                 |                        | 0.0225                  |
| 1571 | 1       | 0.06109                  | 0.8383                   | 0.1588                  | 0.507                   | -0.117                   |                          | 0.4636                 | -0.06641                |
| 1572 | 1       | 0.4706                   | 0.1878                   | 0.7683                  | -0.1934                 | 0.1225                   |                          | 0.6831                 | -0.05688                |
| 1573 | 1       | 0.2225                   | -0.5803                  | -0.3598                 | 0.3284                  | -0.1156                  | 0.5229                   | 0.475                  | 1.195                   |
| 1574 | 1       | -0.2425                  | 0.4047                   |                         | -0.6666                 | 0.03937                  | 0.1679                   | 0.02                   | 0.63                    |
| 1575 | 1       | -0.9397                  | -0.7325                  | -0.482                  | -0.2338                 | -0.1678                  | 0.0007031                | -0.7172                | -1.437                  |
| 1576 | 1       | -0.7397                  | -1.063                   | -0.282                  | -0.4338                 | 0.1722                   | 0.0007031                | -0.3872                | -0.5972                 |
| 1577 | 1       | -0.5237                  | -0.8466                  | -0.6861                 | 0.6722                  | 0.7981                   | -0.2634                  | -0.3713                | 0.2787                  |
| 1578 | 1       | -0.7864                  | -0.7992                  | -0.4187                 | 0.2895                  | 0.5455                   | 0.314                    | 0.4461                 | -0.5239                 |
| 1579 | 1       | 0.1784                   | -0.5045                  | 2.276                   | 0.7543                  | 0.6802                   | 2.009                    |                        | 1.571                   |
| 1580 | 1       | 0.3438                   | -0.5791                  | 1.891                   | -0.5603                 | 0.1156                   |                          | -0.5138                | 1.556                   |
| 1581 | 1       | -0.4925                  | -1.095                   |                         |                         | 0.2194                   |                          | -0.84                  | 1.72                    |
| 1582 | 1       | -0.0225                  | 0.2247                   | 1.515                   | -0.2066                 | 1.149                    | 0.3079                   | 0.56                   | 0.17                    |
| 1583 | 1       | -0.04891                 | -0.8017                  | 1.009                   | -0.002969               | 1.273                    | 1.241                    | 0.7936                 | 0.3436                  |
| 1584 | 1       | -0.8266                  | -1.539                   | -0.2489                 | 1.399                   | -0.1847                  | -0.2662                  | -0.6641                | 0.3759                  |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1585 | 1       | -0.1225                  | -0.7153                  | -0.6448                 | -0.8466                 | 0.4494                   | -0.1921                  | -2.65E-09              | -0.51                   |
| 1586 | 1       | -0.05891                 | -0.2817                  | -1.431                  | -0.123                  | -0.07703                 | -1.179                   | -0.7164                | -0.4164                 |
| 1587 | 1       | -0.1675                  | 0.01969                  | -0.9098                 | -0.5216                 | -0.6356                  | -0.7771                  | -1.075                 | -0.615                  |
| 1588 | 1       | 0.6114                   | -0.4714                  | -0.9109                 | -0.4126                 | 0.1233                   | 1.062                    | -0.9061                | -1.086                  |
| 1589 | 1       | -0.4197                  | -0.9125                  | 0.278                   | -0.5137                 | 0.2022                   | -0.0893                  | 1.153                  | 0.3328                  |
| 1590 | 1       | -0.5469                  | -0.5697                  | 0.1508                  | -0.04094                | 0.195                    | -0.08648                 | 1.536                  | 0.6356                  |
| 1591 | 1       | -0.3308                  | -1.164                   | -0.2931                 | 0.09512                 | 0.6611                   | 0.8496                   | -0.4583                | -0.6183                 |
| 1592 | 1       | 0.003125                 | -0.6997                  | 0.7408                  | -0.09094                | 0.725                    | 0.7735                   | -0.5844                | 0.08562                 |
| 1593 | 1       | 0.4882                   | 1.545                    | 0.7359                  | 0.5141                  | 0.34                     | 1.129                    | 0.2007                 | -0.4493                 |
| 1594 | 1       | 0.2703                   | -0.0425                  | 0.258                   | 0.5063                  | 0.4722                   | -0.3193                  | 0.7528                 | 0.2228                  |
| 1595 | 1       | 1.054                    | 1.291                    | 1.332                   | 0.4002                  | 0.5561                   | 0.5146                   | 0.2167                 | 0.9567                  |
| 1596 | 1       | 1.258                    | 1.285                    | 1.295                   | 0.5834                  | 0.3994                   | 0.6079                   | 0.18                   | 0.85                    |
| 1597 | 1       | 1.029                    | 1.096                    | 0.8863                  | 0.3545                  | 0.2405                   | 0.299                    | 0.06109                | 0.9011                  |
| 1598 | 1       | 0.7178                   | -0.485                   | 0.8155                  | -0.1663                 | 0.2297                   | 0.3682                   | 0.1903                 | 0.5603                  |
| 1599 | 1       | 1.158                    | 0.4747                   |                         |                         | 1.509                    |                          | -2.01                  | 2.23                    |
| 1600 | 1       | 1.668                    | 2.295                    | -0.7348                 | -0.1466                 | 1.629                    | 1.438                    | -2.39                  | 2.57                    |
| 1601 | 1       | 0.6863                   | -0.2966                  | 0.5839                  | 0.3822                  | 1.908                    | 1.157                    | 0.06875                | -0.9513                 |
| 1602 | 1       | 0.6441                   |                          | 0.7118                  | 1.03                    | 2.236                    | 1.625                    | 0.2466                 |                         |
| 1603 | 1       | -0.249                   | -0.2118                  | -0.7713                 | 0.127                   | 0.3329                   | 0.3214                   | 0.7735                 | -0.3765                 |
| 1604 | 1       | 0.06367                  | 0.5609                   | 0.05137                 | 0.07961                 | 0.1855                   | -0.2459                  |                        | -0.4138                 |
| 1605 | 1       | 0.0125                   | -0.0003125               | 0.2202                  | 0.1384                  | -0.3756                  | -0.1871                  |                        | 0.085                   |
| 1606 | 1       | -0.2039                  | -1.387                   | -0.2062                 | -0.108                  | 0.508                    |                          | -0.1714                | -2.151                  |
| 1607 | 1       | 0.0725                   | -0.8403                  | 0.4902                  | 0.6984                  | 0.09438                  | 0.1929                   | -0.265                 | -2.035                  |
| 1608 | 1       | -0.3575                  | -0.8303                  | 0.1502                  | 0.4384                  | 0.1644                   |                          | 0.185                  | -1.575                  |
| 1609 | 1       | 1.447                    | 1.874                    | 0.6243                  | 0.4325                  | 1.168                    | 0.527                    | -0.09094               | -2.311                  |
| 1610 | 1       | -1.009                   | -0.9316                  | 0.4089                  | 0.8772                  | -0.5069                  | 0.2316                   |                        | 1.154                   |
| 1611 | 1       |                          | -0.9686                  | 1.592                   | 1.01                    | 2.376                    | 2.435                    | 0.07672                |                         |
| 1612 | 1       | -0.4725                  | -0.7753                  | -0.7748                 | -0.1266                 | -0.2106                  |                          | 0.22                   | -0.61                   |
| 1613 | 1       | -0.1247                  | 0.2725                   | 0.773                   | 2.521                   | 1.887                    | 0.9557                   | -0.1622                | 0.2678                  |
| 1614 | 1       | -0.5086                  | 0.2486                   | 0.8791                  | 1.337                   | 1.293                    |                          | -0.5361                | -0.05609                |
| 1615 | 1       | -0.1766                  | -0.8995                  | 0.4411                  | 1.839                   | 1.445                    | -0.9338                  | -0.2641                | 0.08586                 |
| 1616 | 1       | -0.308                   | -1.301                   | -0.6403                 | 0.448                   | 1.364                    | 0.2924                   | 0.5545                 | -0.3055                 |
| 1617 | 1       | -0.2364                  | 0.1308                   | -0.2387                 | 1.09                    | 1.166                    | -0.396                   |                        | 0.006133                |
| 1618 | 1       | -0.1886                  | 0.1386                   | -0.1909                 | 1.087                   | 1.143                    | 0.4018                   | 0.3739                 | 0.1939                  |
| 1619 | 1       | 0.05406                  | 0.1212                   | -0.6482                 | -0.05                   | 0.3659                   | 0.3845                   | -0.05344               | 0.3666                  |
| 1620 | 1       | 0.3332                   | 0.2604                   | -0.6291                 | -0.04086                | 0.8751                   | 0.2436                   | -0.4443                | 0.4157                  |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1621 | 1       | -0.8075                  | -0.2903                  |                         | 0.5584                  | 0.1644                   | 0.03289                  | 0.365                  | -0.425                  |
| 1622 | 1       | -0.628                   | -0.3408                  | 0.2797                  | 0.548                   | 0.1939                   | 0.6824                   | 0.2745                 | -0.4255                 |
| 1623 | 1       | -0.3277                  | -0.4305                  | -0.66                   | 0.1482                  | -0.1758                  |                          | -0.2952                | 0.3848                  |
| 1624 | 1       | -0.5425                  | -0.7853                  | -2.055                  | -0.6366                 | -0.9406                  |                          | -0.14                  | 0.45                    |
| 1625 | 1       | -0.5558                  | -0.1186                  | -0.3981                 | 0.3502                  | -0.5939                  | -0.8854                  | -0.4533                | 0.2967                  |
| 1626 | 1       | 0.01281                  | -4.66E-12                | -0.5095                 | -0.09125                | -0.5453                  | -0.006797                | -0.3447                | -0.1147                 |
| 1627 | 1       | -0.4062                  |                          | -0.3586                 | 0.1297                  | 0.3756                   | 0.3941                   | -0.4663                | 0.5663                  |
| 1628 | 1       | -0.2925                  | 0.2347                   | -0.0448                 | 0.1134                  | -0.5306                  |                          | -0.08                  | -0.19                   |
| 1629 | 1       | -0.6837                  | 0.8434                   | -0.4361                 | 0.2322                  |                          |                          | -0.3813                | -0.05125                |
| 1630 | 1       | 0                        | -0.3828                  | 0.3677                  | -0.4141                 | 0.2619                   | 0.2304                   | 0.1225                 | -1.028                  |
| 1631 | 1       | 0.04117                  | -0.9316                  | 0.2189                  | 0.3671                  | -0.137                   |                          | 0.5237                 | 1.144                   |
| 1632 | 1       | 0.5647                   | 0.6619                   | 1.482                   | 0.000625                | 0.3066                   | -0.1749                  | 1.067                  | 1.997                   |
| 1633 | 1       | 0.5604                   | 1.328                    | 0.6081                  | 0.4964                  | -0.0877                  | -0.1592                  | 1.533                  | 2.103                   |
| 1634 | 1       | -0.2677                  | -0.4905                  | -4.95E-12               | 1.048                   | 0.3642                   | 0.1427                   | -0.9452                | -0.7852                 |
| 1635 | 1       | -0.205                   | -1.208                   | -0.4873                 | 0.4309                  | 0.3069                   | -0.03461                 | 0.7375                 | -0.6325                 |
| 1636 | 1       | 0.8144                   | 0.3216                   | 0.1321                  | -0.1697                 | 0.9562                   | 0.6248                   | 0.1169                 | 0.4969                  |
| 1637 | 1       | 1.458                    | 1.615                    | -0.4341                 | -1.906                  | -2.96                    | -2.121                   | 0.8207                 | -1.399                  |
| 1638 | 1       | -0.6795                  | -1.172                   | 0.3082                  | -0.9236                 | -1.398                   | -1.319                   |                        | -2.057                  |
| 1639 | 1       | 0.5414                   | -0.7614                  | 0.4791                  | -0.6527                 | -0.1567                  | 0.3018                   | -0.5661                | -0.4161                 |
| 1640 | 1       | 0                        | 0.03719                  | -0.4723                 | 0.005937                | -0.1181                  | 0.1704                   | -0.0075                | -0.4275                 |
| 1641 | 1       | -0.9825                  | -0.3753                  |                         |                         | -0.3006                  | -0.5421                  | 0.61                   | 0.48                    |
| 1642 | 1       | -0.9868                  |                          |                         | -1.361                  | 0.9151                   | 0.4336                   |                        | 1.186                   |
| 1643 | 1       | -0.2645                  | -0.6973                  | -0.06676                | 0.03148                 | 1.057                    | 1.026                    | 0.258                  | 1.248                   |
| 1644 | 1       | 0.2332                   | -0.4596                  | 1.011                   | -0.5309                 | 0.5451                   | 0.3436                   | -0.4343                | 0.5157                  |
| 1645 | 1       | 0.9875                   | -1.775                   | -0.5948                 | -0.4766                 | 0.8694                   | 1.278                    | -0.79                  | 0.92                    |
| 1646 | 1       | -0.01187                 | 0.2653                   | -0.6142                 | -0.6359                 | 0.55                     | 0.06852                  | 0.3206                 | 1.171                   |
| 1647 | 1       | 0.5938                   | 1.311                    | -0.4186                 | -1.24                   | 1.006                    | 0.1141                   | -0.09375               | 0.05625                 |
| 1648 | 1       | 0.8075                   | 0.7347                   | 0.2452                  | -0.8266                 | -0.7406                  | -1.002                   | 0.15                   | 1.63                    |
| 1649 | 1       | 0.2075                   | -0.2353                  | -0.2248                 |                         | -0.07062                 |                          |                        | 0.64                    |
| 1650 | 1       | -0.4369                  | -0.3197                  | 1.691                   | 1.469                   | -0.655                   |                          | 0.2856                 | 0.3756                  |
| 1651 | 1       | -0.1881                  | 0.3691                   | 0.5996                  | 0.5378                  | -0.4863                  | -0.2277                  |                        | 0.2344                  |
| 1652 | 1       | -0.0125                  | 0.1247                   | 0.7352                  | 0.3334                  | 1.029                    | 1.238                    |                        | 1.59                    |
| 1653 | 1       | -0.4025                  | -0.8353                  | 1.045                   | 1.063                   | 0.9594                   | 0.1179                   | -0.14                  | 0.33                    |
| 1654 | 1       | 0.6996                   | 1.117                    |                         | -0.1844                 | 2.412                    | 0.49                     | 0.4521                 | 3.182                   |
| 1655 | 1       | -0.2912                  | 0.296                    |                         |                         | 2.521                    | 2.319                    | 2.131                  | 2.061                   |
| 1656 | 1       | 0.1134                   | 0.2805                   | -0.5989                 | -0.5707                 | 0.9652                   | -0.06625                 | -0.7241                | -0.4341                 |



Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | -1                       | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1657 | 1       | 0.5548                   | 2.732                    | 1.213                   | 0.3608                  | -0.8333                  | -0.6548                  |                        | 0.1773                  |
| 1658 | 1       | -0.2268                  | 0.1104                   | 0.0509                  | -0.3609                 | -0.1149                  | -0.7164                  | -0.6143                | -0.0543                 |
| 1659 | 1       | 1.58                     | 0.02884                  |                         | 0.4756                  | 0.9915                   | 1.14                     | -1.068                 | 1.682                   |
| 1660 | 1       | 0.07938                  | 0.2366                   | 0.1371                  | -0.1447                 | 0.3513                   | -0.1302                  | 0.3219                 | 0.5219                  |
| 1661 | 1       | 0.6575                   | 0.5947                   | 1.195                   | 0.9734                  | 1.089                    | 1.608                    | -1.11                  |                         |
| 1662 | 1       | 0.1925                   | -0.6003                  | 0.5202                  | -0.1816                 | 1.014                    | 1.043                    | -0.325                 | -0.165                  |
| 1663 | 1       | 0.9031                   | 0.3503                   | 0.07082                 |                         | 0.485                    | 0.3665                   | 0.1756                 | 0.7756                  |
| 1664 | 1       | 0.5075                   |                          | -0.0448                 | -0.06656                | 0.7294                   | 0.4479                   | -0.45                  |                         |
| 1665 | 1       | 0.275                    | 0.8722                   | 1.003                   | 0.5009                  | 0.6269                   | 0.6654                   |                        | 0.9575                  |
| 1666 | 1       | -0.8325                  | -1.735                   | 0.0252                  | -1.067                  | 0.02937                  | -0.04211                 | 0.1                    | 0.69                    |
| 1667 | 1       | -0.05516                 | 0.512                    | 1.003                   | 0.1708                  | 0.2467                   | 0.5252                   |                        | 0.6873                  |
| 1668 | 1       | 3.769                    | 1.696                    | 2.666                   | 0.8245                  | -0.5595                  |                          |                        | 3.581                   |
| 1669 | 1       | 4.356                    | 1.443                    | 3.684                   | 1.212                   | -0.7219                  | 0.03664                  | -0.04125               | 4.329                   |
| 1670 | 1       | 1.468                    | 1.615                    | 1.005                   | 0.01344                 | 0.1394                   |                          | -1.2                   | 1.46                    |
| 1671 | 1       | 1.357                    | 1.664                    | 0.6848                  | 0.3031                  | 0.579                    | 0.5675                   | -1.76                  | 0.4596                  |
| 1672 | 1       | 0.5775                   | 0.08469                  | 0.3752                  | -0.3966                 | -0.2806                  | -0.07211                 | -0.06                  | 1.23                    |
| 1673 | 1       | 0.1175                   | -0.05531                 | 0.3852                  | -0.02656                | 0.6294                   | 0.5279                   | -1.62                  | 1.29                    |
| 1674 | 1       | 1.612                    | 1.709                    |                         | -1.322                  | 0.3536                   | 0.6221                   | -1.036                 | 0.5342                  |
| 1675 | 1       | -0.1739                  | 0.05328                  | -0.1462                 | 0.02203                 | 0.648                    | 0.5265                   | 0.3286                 | -0.3614                 |
| 1676 | 1       | 0.00125                  | 0.8184                   | 0.4289                  | -1.013                  | 0.4831                   | 0.3516                   | 0.3237                 | 0.2637                  |
| 1677 | 1       | -0.2866                  | 0.1606                   | -0.4189                 | -0.2706                 | 1.255                    | 0.4738                   | -0.5741                | 0.2259                  |
| 1678 | 1       | -0.2625                  | -0.3353                  | -0.2248                 | 0.2134                  | 1.289                    | 0.4679                   | -0.26                  | 0.16                    |
| 1679 | 1       | 0.8175                   | -0.2253                  | 0.4452                  | -0.1166                 | 0.3794                   | 1.148                    | -0.13                  | 0.72                    |
| 1680 | 1       | 0.02813                  | 1.205                    | 0.1458                  | -0.4659                 | 2.33E-11                 | 0.2185                   | -0.1994                | -0.2394                 |
| 1681 | 1       | -0.1135                  | -1.056                   | -0.4058                 | -0.3476                 | -0.1816                  | -0.4431                  | -0.201                 | 0.04898                 |
| 1682 | 1       | -0.5914                  | -1.424                   | 0.2163                  | -0.5655                 | 0.1205                   | 0.199                    | -0.4489                | -0.1289                 |
| 1683 | 1       | 0.2575                   | -0.3453                  | 0.5152                  | -0.9666                 | 0.8894                   |                          | -0.05                  | 0.57                    |
| 1684 | 1       | 0.5409                   | 0.138                    | -0.4414                 | -0.0432                 | -1.447                   | -1.589                   | -1.247                 | 0.08336                 |
| 1685 | 1       | -0.4356                  | -0.8184                  | 1.552                   | -0.7297                 | -0.1738                  | -0.9952                  | 0.1469                 | 0.3669                  |
| 1686 | 1       | -0.3989                  | 0.2283                   | 0.7488                  | -0.06297                | -0.277                   | -0.6585                  | -0.7664                | -0.2164                 |
| 1687 | 1       | -0.2925                  | 0.3147                   | 0.3752                  | -0.07656                | -0.3906                  | -0.4221                  |                        | -0.36                   |
| 1688 | 1       | 0.0525                   | -0.8803                  | -0.6498                 | -0.1716                 | -0.2456                  | -0.5771                  | -0.325                 | -0.005                  |
| 1689 | 1       | -0.3425                  | -0.1153                  | 0.4652                  | -0.02656                | 0.2294                   | 1.198                    | -0.81                  | 0.68                    |
| 1690 | 1       | 0                        | -1.953                   |                         | -0.8341                 | -0.3081                  | -0.2096                  |                        | 0.6025                  |
| 1691 | 1       | -0.5714                  | -2.584                   | -0.5537                 | -0.4955                 | 0.1805                   | 0.769                    | 1.591                  | -0.05891                |
| 1692 | 1       | -1.167                   | -2.55                    | -0.5992                 | 0.1091                  | 0.535                    |                          | 1.616                  | -0.9344                 |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| 1693 | 1       | -0.9203                  | -0.8131                  | -0.3726                 | -0.07437                | 0.6016                   | -0.8399                  | 1.362                  | -0.9378                 |
| 1694 | 1       | -0.1008                  | 0.3364                   | -0.2031                 | -0.6148                 | 0.6211                   | 0.2796                   | 0.9217                 | 0.4917                  |
| 1695 | 1       | 0.1225                   | 0.4697                   | -0.2498                 | 0.02844                 | 0.1744                   | 0.2071                   | 1.385                  | 0.195                   |
| 1696 | 1       | -0.06875                 | 0.6984                   | 0.2689                  | -0.07281                | 0.5631                   | 0.4216                   | 0.1738                 | -0.7362                 |
| 1697 | 1       | -0.4287                  | -1.372                   | 0.3889                  | 0.01719                 | 0.0719                   | 0.7616                   | 0.2037                 | 0.8537                  |
| 1698 | 1       | -0.2425                  | -1.575                   | -0.1148                 | 0.1134                  | 0.8094                   | 0.6179                   | 0.23                   | -0.39                   |
| 1699 | 1       | 0.9069                   | 1.044                    | -0.3954                 | 0.1428                  | 0.1787                   | 0.03727                  | -1.491                 | -0.9306                 |
| 1700 | 1       | 0.4706                   | -0.7222                  | 0.08832                 | -0.6834                 | 0.2425                   | -0.119                   | 0.5031                 | 0.003125                |
| 1701 | 1       | -0.4625                  | -1.205                   | 0.4352                  | -0.9366                 | 0.1294                   | 0.02789                  | 1.92                   | 0.77                    |
| 1702 | 1       | 0.4463                   | 0.3734                   | -0.05605                | 0.3422                  | 1.018                    | 0.6766                   | 1.469                  | 0.07875                 |
| 1703 | 1       | 1.838                    | 0.4547                   | 1.615                   | 0.6634                  | 1.939                    | 2.038                    | 2.05                   | 1.09                    |
| 1704 | 1       | -0.01625                 | -0.4091                  | 0.4714                  | -0.4403                 | -0.2744                  | 0.1441                   | 0.2462                 | -0.3738                 |
| 1705 | 1       | -0.4225                  | -0.2453                  | 1.315                   | 0.5334                  | 1.169                    | 0.6279                   | 0.7                    | 0.51                    |
| 1706 | 1       | 0.0575                   | 0.9247                   | 0.3652                  | 0.4234                  | 0.3594                   | 0.5379                   | -0.06                  | -0.03                   |
| 1707 | 1       | 0.5925                   | 0.4297                   | 0.9902                  | 0.5684                  | 0.6844                   | 0.6229                   | -0.265                 | -0.235                  |
| 1708 | 1       | -0.1742                  | 0.413                    | 0.3435                  | -0.1183                 | -0.07234                 | 1.026                    | 1.968                  | 0.4383                  |
| 1709 | 1       | -0.6798                  | -0.9626                  | 0.1879                  | -0.2838                 | -0.4079                  | -0.2694                  | -0.2173                | -0.07727                |
| 1710 | 1       | 0.3347                   | 0.6919                   | -0.6576                 | -0.1494                 | -0.1134                  | 0.1051                   | -0.7928                | -0.6428                 |
| 1711 | 1       | -0.5889                  | 0.6919                   | -0.06121                | 0.01703                 | -0.147                   | 0.1051                   | -0.4864                | -0.1964                 |
| 1712 | 1       | -0.7328                  | -2.656                   | -0.9151                 | -0.5469                 | -0.1309                  | 0.08758                  | -0.1503                | -0.4603                 |
| 1713 | 1       | -0.936                   | 0.6919                   | -0.7683                 | -0.03008                | -0.5441                  | 0.08758                  | -0.9035                | -0.1435                 |
| 1714 | 1       | -0.7181                  | -0.8409                  | -0.1204                 | -0.4422                 | -0.3862                  | -0.2877                  | -0.5156                | -0.07563                |
| 1715 | 1       | -1.116                   | -1.789                   | -0.3281                 | -0.4298                 | -0.4139                  | 0.1546                   | -0.5733                | -0.3633                 |
| 1716 | 1       | -1.045                   | -2.358                   | -0.3776                 | -0.1294                 | -0.3634                  | 0.1546                   | -0.5728                | -0.09281                |
| 1717 | 1       | -0.7425                  | -0.4553                  | 0.1952                  | -0.1166                 | -0.3606                  | -0.02211                 | -1.02                  | -0.28                   |
| 1718 | 1       | -0.2122                  | 0.025                    | -0.1045                 | -0.1463                 | 0.4094                   | -0.1918                  | -0.59                  | 0.09031                 |
| 1719 | 1       | -0.4525                  | 0.025                    | -0.3348                 | -0.03656                | 0.4094                   | -0.1821                  | -0.59                  | -0.29                   |
| 1720 | 1       | -0.01953                 | -0.04234                 | -0.2318                 | 0.1264                  | 0.1423                   | -0.217                   | -0.217                 | -0.167                  |
| 1721 | 1       | 0                        | -0.01281                 | 0.0477                  | 0.07594                 | -0.7081                  | -0.9896                  | -0.5075                | -1.468                  |
| 1722 | 1       | -0.7177                  | -0.9405                  | -1.14E-11               | 0.02824                 | 0.1642                   | 0.3227                   | 0.0948                 | 0.4917                  |
| 1723 | 1       | 0                        | -0.3428                  | 0.9577                  | -0.02406                | -0.2981                  | -0.02961                 | -0.2675                | 1.162                   |
| 1724 | 1       | -0.6925                  | -0.4153                  | -1.135                  | -0.1466                 | -0.3606                  | -0.3621                  | 1.56                   | 0.12                    |
| 1725 | 1       | 0.6334                   | -0.7794                  | 0.0477                  | 0.07594                 | 0.1642                   | 0.3227                   | 0.0948                 | 0.4917                  |
| 1726 | 1       | -0.1037                  | -0.3366                  | -0.1161                 | 0.3622                  | 0.9381                   | -0.8034                  | 0.8887                 | -0.01125                |
| 1727 | 1       | -0.2925                  | 0.3547                   | -0.0948                 | -0.5766                 | 0.09938                  | 1.148                    | -0.82                  | 0.12                    |
| 1728 | 1       | -0.01625                 | 0.3909                   | -0.03855                | -0.4203                 | 0.7856                   | 0.6741                   | -0.2038                | 0.04625                 |

Table 1

|      | GWEIGHT | NORWAY 100-BE<br>ARRY19X | NORWAY 100-AF<br>ARRY18X | NORWAY 10-AF<br>ARRY21X | NORWAY 10-BE<br>ARRY20X | NORWAY 102-BE<br>ARRY23X | NORWAY 102-AF<br>ARRY22X | NORWAY 7-AF<br>ARRY24X | NORWAY 17-BE<br>ARRY25X |
|------|---------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|------------------------|-------------------------|
|      |         | 1                        | 1                        | 1                       | 1                       | 1                        | 1                        | 1                      | 1                       |
| 1729 | 1       | -0.6625                  | -0.8653                  | -0.7648                 | 0.2334                  | -0.2306                  | -0.2421                  | -1.3                   | -0.55                   |
| 1730 | 1       | -0.4458                  | 0.3314                   | 0.4019                  | 0.7302                  |                          | 0.5846                   | -0.4233                | 0.4467                  |
| 1731 | 1       | -0.6684                  | -0.1612                  | -0.5807                 | -0.8924                 | 3.944                    | 2.852                    | 0.2741                 | 1.074                   |
| 1732 | 1       | 0.2575                   | 1.015                    |                         | 1.173                   | 0.3894                   | 0.5679                   | -1.21                  | -0.47                   |
| 1733 | 1       | 0.2045                   | 0.2717                   |                         | -0.6896                 | -0.3136                  | -1.295                   | 0.367                  | -0.503                  |
| 1734 | 1       | -0.6425                  | -1.145                   | -0.2048                 | 0.8934                  | -1.451                   | 0.1379                   |                        | 0.67                    |
| 1735 | 1       | -0.4567                  | 0.1905                   | 0.171                   | -0.2808                 | -0.4348                  | 1.444                    | 0.7058                 | -1.324                  |
| 1736 | 1       | 0.2056                   | 1.043                    | -0.2967                 | -0.2384                 | 1.868                    | 0.206                    |                        | 0.9081                  |
| 1737 | 1       | 0.004219                 | 0.4814                   | -0.1381                 | 0.4102                  | 1.646                    | 0.2046                   | 0.2967                 | 0.1067                  |
| 1738 | 1       | 0.2097                   | 0.5969                   | 1.057                   | 1.436                   | 0.9816                   | 0.7401                   | 1.722                  | 0.2222                  |
| 1739 | 1       | 0.6794                   | 1.727                    | -0.1229                 | 0.8353                  | -0.7888                  | 0.2598                   | -0.2281                | -0.1781                 |
| 1740 | 1       | -0.2725                  | 0.4647                   |                         | -0.09656                | -0.5406                  | 0.4479                   |                        |                         |
| 1741 | 1       | 0.04063                  | 0.1078                   | -0.1617                 | -0.2434                 | 1.123                    | 1.101                    | -1.407                 | -0.1969                 |
| 1742 | 1       | -0.4675                  | -0.8003                  | -0.5498                 | 0.4084                  | 0.3744                   |                          | 0.195                  | -0.405                  |
| 1743 | 1       | -0.2353                  | -0.1081                  | -0.3176                 | 0.2406                  | -0.2434                  | -0.2749                  | -0.1728                | -0.1728                 |
| 1744 | 1       | -0.0975                  | 0.4997                   | -0.2298                 | 0.07844                 | -0.1956                  | 0.09289                  | 1.445                  | -0.225                  |
| 1745 | 1       | -0.0875                  | 0.3797                   | 0.1202                  |                         | -0.02563                 | 0.2029                   |                        | 0.315                   |
| 1746 | 1       | -0.3937                  | -0.04656                 | 0.06395                 | -0.007813               | 1.598                    | 0.8066                   | 0.4787                 | -0.6913                 |
| 1747 | 1       | -0.4175                  | -0.4203                  | 0.1402                  | 0.4784                  |                          | 0.9229                   | 0.255                  | 0.205                   |
| 1748 | 1       | 0.5088                   |                          | 1.286                   | -0.1953                 | 0.000625                 | -0.4009                  |                        | 0.6512                  |
| 1749 | 1       | 0                        | -0.5428                  | 1.568                   | 1.616                   | 0.5319                   | 0.8104                   | 0.7925                 | 1.792                   |
| 1750 | 1       | 0.6475                   | -0.5753                  | 2.045                   | 1.103                   | -0.6706                  | 1.438                    | 0.26                   | -0.97                   |
| 1751 | 1       | 0.3271                   | -0.2257                  | 1.485                   | 0.4931                  | -0.171                   | 0.9575                   | 0.1796                 | 0.3896                  |
| 1752 | 1       | -1.212                   | -0.4053                  | 0.8352                  | -0.1166                 | 0.2994                   | 0.5179                   | 0.77                   | -3.85E-09               |
| 1753 | 1       | 0.3597                   | 0.8369                   | -0.6726                 | -0.4344                 | 0.6716                   | 0.8301                   |                        | -0.3278                 |

Table 1

|    | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|    | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1  | 0.00125                 | -0.3944                 | 0.609                   | -1.594                 | -0.5488                | 0.1712                 | -1.092                 | -1.253           | -0.3389          | -0.8775          |
| 2  | 0.5806                  | 0.685                   | 0.5884                  | 0.8949                 | 0.4206                 | -1.093                 | -1.093                 | -1.334           | 0.1904           | -0.2081          |
| 3  | 0.83                    | -0.4356                 |                         | -1.126                 | -0.49                  | -0.68                  | -2.154                 | -1.734           | -1.2             | -1.289           |
| 4  | 0.49                    | -0.5656                 |                         | -0.4757                | 0.06                   | 0.57                   | -1.134                 | -0.1944          | 0.1598           | 0.1213           |
| 5  | -1.1                    | 0.1444                  |                         | -1.666                 | 1.12                   | 2.44                   | -0.4437                | 0.9556           | -0.3602          | 1.851            |
| 6  | -0.836                  | -0.3316                 | -0.06828                | -3.002                 | -0.286                 | 0.784                  |                        |                  | -0.3162          | 0.4552           |
| 7  | 0.03797                 | -0.01766                | -0.1443                 | -0.7678                | -0.472                 |                        | -0.4457                | 0.8136           | 0.1178           | 0.4692           |
| 8  | 1.045                   | 0.1494                  |                         | 0.1493                 | 0.735                  | 2.615                  | -0.4687                | 0.08063          | -0.3652          | -0.1738          |
| 9  | -0.9998                 | -0.1355                 | -0.04211                |                        | 0.1202                 | 1.59                   | -0.4836                | 0.9958           | -0.67            |                  |
| 10 | -0.09                   | 0.3144                  | -0.3123                 | -0.1957                | 1.06                   | 1.31                   | 0.1763                 | 0.4156           | 1.05             | -2.879           |
| 11 | -0.645                  | -0.2406                 |                         | 0.08926                |                        |                        | -0.5987                |                  | -1.075           | -0.7737          |
| 12 | 0.6231                  | -0.0325                 |                         | 0.5774                 |                        |                        | -0.4806                | 1.969            | -1.127           | -1.136           |
| 13 | -0.06422                | -0.3898                 | -0.6365                 | -0.21                  | 0.05578                | 1.236                  | 0.03207                | 0.5714           | -0.5144          | -0.293           |
| 14 | 0                       | 0.1144                  | 0.05773                 | 0.03426                | -0.12                  | 0.04                   | -0.7937                | 0.2256           | 0.0998           | -0.1688          |
| 15 | 0.3398                  | 0.8342                  | -0.7524                 | -0.7659                | -0.1602                | 0.6498                 | 0.3361                 | 0.1755           | 0.6696           | 0.8111           |
| 16 | 0.1294                  | -0.3362                 | 0.8171                  | 0.05363                | -0.6606                | 0.3394                 | -0.04434               | 0.385            | 0.5692           | 0.2506           |
| 17 | 0.3025                  | 0.5769                  | 0.7802                  | 0.2868                 | 0.0125                 | 0.7925                 | 0.1388                 |                  | 1.692            | -0.5762          |
| 18 | 1.022                   | 1.376                   | -1.241                  | -1.014                 | -0.5885                |                        | 0.1578                 | 0.1671           | 0.2313           | 0.5328           |
| 19 | 0.2279                  |                         |                         | -1.198                 | -0.07205               | 0.5879                 | -0.07576               | 0.05357          | 0.02775          | 1.599            |
| 20 | 0.2025                  | 0.07687                 | 0.8602                  | 0.6668                 | 0.5825                 | 0.2525                 | -0.5512                | 1.688            | 0.8623           | 0.5737           |
| 21 | -0.006016               | 0.5084                  | 0.2717                  | 0.2682                 | 0.454                  | 0.434                  | 1.04                   | 0.7596           | 1.104            | 0.6152           |
| 22 | -0.9275                 | -0.4131                 | 0.4302                  | -0.2732                | -0.4475                | 0.4425                 | -0.4512                | 0.3881           | 0.2623           | -0.4863          |
| 23 | 0.7188                  | 0.9331                  | 0.6965                  | 0.143                  | 0.2687                 | -0.1613                | 2.085                  | -0.04562         | 0.2786           | 0                |
| 24 | 0.575                   | 1.049                   | 0.1827                  | -1.661                 | -0.985                 | 0.045                  | 0.04129                |                  | -1.525           | -2.134           |
| 25 | 0.7175                  | 1.112                   | 0.3752                  | -0.7282                | -0.3825                | -0.1725                | -0.6462                | -0.2569          | -0.8027          | -1.201           |
| 26 | -0.25                   | -0.4056                 |                         | 0.03426                | -0.29                  |                        | 2.246                  | 0.9256           | 0.1398           | 0.09125          |
| 27 | 0.1753                  | 0.1896                  | 0.343                   | -0.0004883             | -0.1647                | 0.3253                 | -0.5685                | 1.121            | 0.5651           | 1.317            |
| 28 | 0.1327                  | 0.1171                  | 0.8105                  | -0.113                 | 0.01273                | -0.5973                | -1.041                 | -0.4016          | -0.7075          | -0.946           |
| 29 | 0.41                    | 0.3844                  | 0.4777                  | -1.536                 | -1.34                  | 0.02                   | -0.3037                | 0.3556           | 0.1998           | 0.1613           |
| 30 | 0.09                    | -1.296                  | -1.012                  | -0.04574               | -0.23                  | 0.46                   | 0.9963                 | 1.176            | 2.59             | 2.521            |
| 31 | -0.7689                 | -1.255                  | -1.421                  | -0.5546                | 0.9811                 | 1.591                  | 0.2474                 | 1.147            | 2.601            | 2.472            |
| 32 | -0.2037                 | -0.5394                 | -1.166                  | -1.029                 | -1.464                 | -0.6538                |                        | 1.502            | 1.906            | 1.938            |
| 33 | -0.04445                | 1.17                    |                         | 0.1098                 | 0.2455                 |                        | 0.9518                 | -0.9888          | -0.4746          | 0.5268           |
| 34 | -0.7064                 | 0.01797                 |                         | -0.6821                |                        | 1.014                  |                        | -0.4708          | -0.1066          | 0.3448           |
| 35 | -0.57                   | -0.7556                 | 0.2777                  | 1.764                  | 0.56                   |                        | -0.2537                | 0.4256           | 1.11             | 1.161            |
| 36 | -0.3582                 | -0.2738                 | 0.2795                  | 0.7461                 | 0.7718                 | -0.0582                |                        | 0.02742          | 0.5516           | 0.723            |

Table 1

|    | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|    | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 37 | 0.07031                 | 0.2847                  | -0.001953               | 1.355                  | 0.5303                 | 0.3503                 | 0.8766                 |                  | 0.1201           | 0.6616           |
| 38 | 0.3187                  | 0.5231                  | 0.6065                  | 0.723                  | 1.609                  | -0.3213                | -0.285                 | -1.536           | -0.3214          | -0.1             |
| 39 | 0.56                    | 0.8244                  | 0.5277                  | 1.034                  | 1.65                   | -0.25                  | -0.4437                | -1.224           | -0.3202          | -0.2088          |
| 40 | 0.005                   | 0.4194                  | 0.1527                  | 1.049                  | 0.245                  | -1.445                 | -0.6987                | 0.7606           | 0.8048           | 0.9962           |
| 41 | 0.05281                 | 0.4872                  | 0.2905                  | 1.017                  | 0.1128                 | 0.2228                 | -0.2109                | 0.6484           | 1.323            | 0.7841           |
| 42 | -0.2589                 | 0.3955                  |                         | 0.9654                 | 0.2211                 | -0.008906              | -0.2126                | 1.117            | 0.6709           | 0.3823           |
| 43 | 0.3425                  | 0.1969                  |                         | 0.3368                 | 0.2125                 |                        | -0.06121               | 1.1281           | 1.312            | 0.8138           |
| 44 | 0.16                    | -0.03562                | -0.2423                 | -0.1157                | -0.27                  | -0.23                  | 0.2563                 | 0.2356           | 0.6198           | -0.4987          |
| 45 | 0.28                    | -0.3556                 | -0.1523                 | -1.086                 | -0.65                  | 0.5                    | 0.1663                 |                  | 0.9298           | 0.3712           |
| 46 | 1.057                   | -0.3284                 | 1.285                   | -1.218                 | 0.007266               | 1.417                  | -0.006445              | 0.7429           | -0.1029          | -0.2915          |
| 47 | -0.03891                | 0.2055                  | -0.3112                 | -0.2946                | -0.2689                | -0.5389                | -0.6126                | 0.6467           | 0.9409           | 0.3023           |
| 48 | 0.3543                  | -0.2513                 | 0.272                   | 0.4586                 | 0.6043                 | 1.184                  | -0.3294                | 2.01             | 1.084            | 1.476            |
| 49 | 0.9587                  | 0.4631                  |                         | 0.353                  | 0.2487                 |                        | -0.004961              |                  | 0.9486           | 1.54             |
| 50 | 0.02                    | -0.1456                 | 0.2877                  | -1.046                 | 1.38                   | 0.62                   | -0.02371               | 3.516            | 1.8              | 2.951            |
| 51 | 0.155                   | -0.1806                 | 1.013                   | -0.6607                | 0.685                  | -0.375                 | 0.6113                 | 1.571            | 0.1448           | 1.696            |
| 52 | 0.17                    | -0.4156                 | 0.1377                  | 0.1943                 | 0.41                   | 0.25                   | -0.1037                | 0.02563          | 0.4198           | -2.059           |
| 53 | 0.3859                  | 0.1103                  |                         | 0.5502                 | 0.1359                 | -0.02406               | 0.2822                 | 1.082            | 1.006            | 0.8872           |
| 54 | 0.1956                  | -0.75                   | 0.4434                  | 0.1699                 | 0.3456                 | 3.396                  | 4.632                  | 1.671            | 1.825            |                  |
| 55 | 0.04625                 | 0.05062                 |                         | 0.01051                |                        |                        | 0.3325                 | 0.7519           | 2.686            | 1.237            |
| 56 | 0.5357                  | 0.2601                  | -0.1266                 | -3.91E-05              | 1.696                  | 0.3957                 | 1.062                  | 1.161            | 0.6555           | 2.587            |
| 57 | -0.8313                 | -0.03688                | -0.003516               | -0.317                 | 0.5887                 | 0.8587                 | 0.495                  |                  | 0.8386           | 1.15             |
| 58 | -0.305                  | -0.3506                 | -0.4873                 |                        | -0.145                 | 1.165                  | -0.3287                | 0.5806           | 0.2948           | 0.4463           |
| 59 | -0.2487                 | -0.1344                 | -0.331                  | -0.1745                | 0.3412                 | 0.4812                 | 1.778                  | 1.377            | 1.661            | 1.053            |
| 60 | -0.46                   | 0.2944                  | -1.762                  | 0.02426                | 0                      | -0.35                  | -0.2837                | 0.9256           | 1.02             | 0.2813           |
| 61 | -0.5828                 | -0.6384                 | 0.1049                  | -0.5786                |                        | 0.8572                 | 1.173                  | 1.113            | 1.367            | 0.3684           |
| 62 | 0.18                    | -0.1556                 | 0.1577                  | 0.5643                 | 0.36                   | -0.03                  | 0.3963                 | 1.016            | 1.3              | 1.551            |
| 63 | 0.1559                  | -0.2697                 | 0.1637                  | 0.6502                 | 0.8259                 | 0.2459                 | 0.4222                 |                  | 1.536            | 1.657            |
| 64 | 1.753                   | -1.213                  | -0.4698                 | 0.8068                 | 0.6925                 | -0.1675                | 0.1488                 | 1.778            |                  | 1.444            |
| 65 | 0.37                    | -0.6256                 | -0.6423                 | 0.3343                 | -0.28                  | 0.19                   | 0.6663                 |                  | 1.42             | 0.6513           |
| 66 | 0.535                   | -0.1806                 | -0.1173                 | -0.6707                | 0.645                  |                        | 0.8413                 |                  | 1.395            | -2.624           |
| 67 | 0.45                    | 0.06438                 | -0.2323                 | 0.5643                 | 1.05                   |                        | 1.146                  | 0.3556           | 1.21             |                  |
| 68 | 0.135                   | 0.5194                  | 0.2127                  |                        | 0.175                  | -1.015                 | 1.341                  |                  | 1.205            | 0.2462           |
| 69 | 0.2225                  | 0.3069                  | 0.2702                  | 0.4468                 | 0.6525                 | -0.1375                | 0.5388                 | 0.4981           | 2.082            | 1.154            |
| 70 | 0.23                    | 0.02438                 | 0.7877                  | -0.1357                | 0                      | 0.18                   | 0.7263                 | -0.5144          | 1.58             | 1.011            |
| 71 | 0.305                   | 0.01937                 | -0.08727                | 0.009258               | 0.075                  | 0.195                  | -0.4087                | 1.321            | 0.9048           | 0.1562           |
| 72 | 0.6748                  | -0.4308                 | -1.307                  |                        | -0.04516               |                        | -0.01887               | 1.31             | 0.02465          | -0.3039          |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 73  | -0.1122                 | -0.1978                 | 0.4955                  | 1.452                  | 0.04781                | -0.8422                | 1.184                  | 0.08344          | -0.9724          | -0.1109          |
| 74  | 0.1424                  | 0.3168                  | 0.3701                  | -0.4633                | -0.3676                | -1.218                 |                        | 1.908            | 1.592            | 1.204            |
| 75  | 0.7344                  | -0.09125                | 0.04211                 | -1.551                 | -0.9756                | 0.5044                 | -0.1493                | 1.31             | 0.4642           | 0.005625         |
| 76  | 0.4953                  | 0.09969                 | 0.113                   | -1.2                   | -0.8547                | 0.3653                 | 0.2116                 | 0.8809           | 0.7351           | 0.03656          |
| 77  | -0.01344                | 0.4109                  |                         | -0.6692                | -1.123                 | 0.5266                 | -0.3671                | 0.1922           | 0.5864           |                  |
| 78  | -0.18                   |                         | -1.022                  | -0.9057                | -1.39                  | -0.54                  | 0.08629                | 0.5556           | 0.1098           |                  |
| 79  | 0.1222                  | -0.6234                 | -7.81E-05               | -0.1236                | -1.018                 | 0.1022                 | 0.2385                 | -0.4922          | -0.09801         | -1.237           |
| 80  | 0.05273                 | -0.5629                 | -2.77                   |                        | -1.027                 | -0.2773                | 0.149                  | -0.01164         | -0.1975          | -1.866           |
| 81  | 0.6                     | -0.02562                | -0.1923                 | -0.1257                | -0.68                  | 1.9                    | -0.003711              | -0.2144          | 1.41             | 0.8613           |
| 82  | 0.25                    | 0.4844                  | 0.01773                 | 0.2343                 | 0.32                   | 0.1                    | 0.09629                | -2.324           | -1.72            | -1.559           |
| 83  | -0.04                   | 0.5744                  | 0.1377                  | 0.1243                 | 0.43                   | 0.23                   | -0.02371               | -2.084           | -1.84            | -1.789           |
| 84  | 0.755                   | 0.4494                  | 0.6527                  |                        | 0.585                  | 0.395                  | 0.9813                 |                  | 0.7148           | 0.8662           |
| 85  | 0.7525                  | 0.4669                  | 0.6002                  | 0.1868                 | 0.0525                 | -0.3475                | -1.511                 | -2.002           | -0.3677          |                  |
| 86  | 0.88                    | 0.3944                  | 0.5377                  | 0.3243                 | 6.51E-09               | -0.47                  | -0.4137                | -1.934           | -0.8802          | -1.689           |
| 87  | 1.055                   | -0.2106                 | 1.143                   | 0.3593                 | 0.615                  | 0.155                  | -1.629                 | -1.769           | -0.9552          | -1.514           |
| 88  | 0.7039                  | 1.178                   |                         | -0.6618                | -1.556                 | -0.5061                | 0.5202                 |                  | 0.1637           |                  |
| 89  | 0.185                   | -0.1706                 | -0.2673                 | -2.151                 | -1.005                 | 0.275                  | -0.5687                | 2.781            | 0.3948           | 0.03625          |
| 90  | 0.3941                  | 0.4584                  |                         | -1.352                 | -2.006                 | 0.5841                 | 1.01                   | 0.9097           | -0.4561          | -0.06469         |
| 91  | 0.02805                 | 0.4124                  | 0.06578                 | 0.1523                 | -0.432                 | -0.492                 | 0.4443                 | -0.5563          | 0.2679           | -0.3607          |
| 92  | 0.3193                  | 0.2337                  | 0.177                   | -1.176                 | -2.331                 | 0.3993                 | 0.3956                 | -0.2951          | -0.0008984       | -1.079           |
| 93  | 0.8578                  | 0.002188                | -0.9245                 | -0.8479                | -1.372                 | 0.1578                 | -0.7959                | -0.5766          | -0.1124          | -0.5309          |
| 94  | -0.1509                 | 0.1935                  | -0.1431                 | 0.5434                 | 0.03914                | -0.8909                |                        | 0.2448           | 0.3989           | 0.1904           |
| 95  | -0.47                   | 0.05437                 | 0.6477                  |                        | -0.24                  | 0.36                   | 0.6863                 | -0.1544          | -0.4602          | 0.02125          |
| 96  | 0.17                    | -0.1556                 | -0.6723                 | -1.636                 | -1.15                  | -0.24                  |                        | 0.7156           | 0.2898           | 0.3212           |
| 97  | 0.31                    | 0.01438                 | -0.4423                 | -0.7157                | -0.62                  | -0.05                  | -0.1737                | 1.126            | 0.3998           | -1.839           |
| 98  | 0.6794                  | 0.3038                  | 1.137                   | 0.5836                 | 0.9794                 | 0.6094                 | -0.5343                | 1.385            | 0.5592           | 0.3406           |
| 99  | 0.1094                  | 0.3937                  | 0.8671                  | 0.1936                 | 0.6394                 | 0.2394                 |                        | 0.585            | -0.09082         | -0.8394          |
| 100 | 0.2                     | 0.2944                  | 0.9677                  | 0.3343                 | 0.83                   | 0                      | -0.5037                | 0.4456           | -0.4802          | -1.189           |
| 101 | 0.1822                  | 0.5766                  | 0.9099                  | 0.4164                 | 0.6722                 | 0.1722                 | -0.4015                | 0.7678           | 0.001992         | -0.5266          |
| 102 | 0.8011                  | 0.6455                  | 0.9088                  | -0.03465               | 0.04109                | -0.6989                | -0.2526                |                  | -0.7791          | -2.018           |
| 103 | 0.9844                  | 0.7288                  | 1.352                   | 0.3086                 | 0.7744                 | 0.1044                 | -0.9793                | -0.81            | -0.2958          | -1.214           |
| 104 | 1.06                    | 0.7044                  |                         | 0.9943                 | 0.95                   | -0.79                  | -0.2037                | -0.4344          | 0.8498           | -0.3487          |
| 105 | 1.198                   | 0.8722                  | 0.7956                  | 0.03211                | -0.2121                | -0.5821                | -0.3059                | 0.3835           | 0.8977           | -0.4809          |
| 106 | 1.211                   | 0.3856                  | -0.101                  | -0.6445                | 0.4412                 | -1.229                 | -0.6725                | 0.4469           | -0.2489          | -0.4175          |
| 107 | 0.6248                  | 0.5392                  | 0.4425                  |                        | 0.5348                 | -0.7452                | -0.1389                | -0.9196          | -0.4454          | -0.7539          |
| 108 | 0.6472                  | -0.2984                 | 0.3749                  | 0.1014                 | -0.03281               | -0.1828                | -0.7565                | 0.4328           | 1.267            | 0.8484           |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 109 | -0.255                  | 0.3094                  | -0.6173                 | -0.2807                | -0.325                 | -1.275                 | -0.3713                | 1.011            | 0.8848           | 0.7962           |
| 110 | -0.2073                 | 0.9371                  | -0.7696                 | -0.873                 | -0.7973                | -0.9873                | 0.6653                 | 0.9183           | 1.012            | 0.3939           |
| 111 | 0.469                   | 0.6134                  | -0.5333                 | -2.027                 | -1.721                 | -0.561                 | 0.6653                 | 1.025            | 0.4788           | -0.2298          |
| 112 | -0.08773                | -0.3334                 | 0.6                     | 0.03652                | -0.3177                | 0.04227                | -0.5914                | -0.9721          | 0.6621           | -0.06648         |
| 113 | 0.8125                  | -0.3531                 |                         | 0.4368                 | 0.3025                 | -0.3975                | 0.2088                 |                  | 0.4623           | -0.3463          |
| 114 | 0.14                    | -0.3956                 | 0.7077                  | 1.354                  | 0.19                   | -0.81                  | 0.04629                | -0.02437         | 0.2598           | 0.02125          |
| 115 | 0.3787                  | -0.1769                 | 0.3965                  | 1.683                  | 1.699                  | 0.7187                 | 0.145                  | -0.1456          | 0.2586           | 0.25             |
| 116 | 0.145                   | -0.1906                 | 0.2227                  | 1.689                  | 1.625                  | 0.435                  | 0.01129                | -0.2394          | -0.0152          | 0.01625          |
| 117 | 0.1083                  | 0.04266                 | 0.356                   | 1.563                  | 1.618                  | 0.3783                 | 0.07457                | -0.3461          | 0.08809          | 0.009531         |
| 118 | 0.8972                  | 0.7116                  | -0.1751                 | 0.6814                 | 1.137                  | -0.1128                | -0.4865                | -0.2472          | 0.07699          | 1.458            |
| 119 | 0.0775                  | -0.008125               | 0.3752                  |                        | -0.7925                |                        | -0.3662                |                  | 0.8873           | 0.5188           |
| 120 | 0.3605                  | 0.3448                  | 0.2182                  | -0.5153                | -0.6295                | 0.2105                 | -0.1032                | 0.6061           | 0.3803           | -0.01828         |
| 121 | 0.55                    | 0.5444                  | -0.3523                 | -0.6257                | 0.7                    | 0.53                   | -0.3237                | 1.326            | 1.49             | 1.141            |
| 122 | 0.6028                  | -0.002812               |                         | -1.493                 | -0.4572                | 1.373                  | 0.5191                 | 0.09844          | 1.803            | 0.08406          |
| 123 | 0.5322                  | -0.2234                 | 0.5399                  | 1.146                  | 1.222                  | 0.3522                 | -0.3715                | -0.4422          | 1.812            | 1.023            |
| 124 | 0.095                   | 1.609                   |                         | -0.9107                | -1.135                 | 1.175                  | -0.4687                | -1.369           | 0.0648           | 0.4763           |
| 125 | -0.06711                | 0.7173                  |                         | -0.8929                | 0.2429                 |                        | -0.03082               | -0.7615          | -0.9273          |                  |
| 126 | -1.084                  | -0.7594                 | 0.154                   | -0.5695                | -0.6938                | 0.07625                | -0.7475                | 0.6019           | 0.5661           | 0.4675           |
| 127 | -0.7828                 | -0.6884                 | 0.1949                  | -0.5186                | -0.3228                | 0.1672                 | -0.6265                | 0.6228           | 0.277            | 0.3684           |
| 128 | -0.7055                 | -0.4111                 | 0.1523                  | 0.4788                 | -0.4755                | 0.8845                 | 0.0008203              | 1.37             | 0.8543           | 0.7658           |
| 129 | -0.05484                | 0.2095                  | 1.173                   | 1.139                  | 0.8852                 | -0.3448                | -0.3586                | 0.1408           | 0.235            | -0.3636          |
| 130 | 0.1388                  | -0.1969                 | -0.1735                 | 1.143                  | 0.4887                 | 0.2987                 | 0.455                  | 0.2244           | 0.5686           | 0.41             |
| 131 | 0.955                   | -0.6206                 | -0.2773                 | -0.3907                | 0.135                  | 0.225                  | 1.291                  |                  | -0.1652          | 0.1463           |
| 132 | 0.92                    | 0.8744                  | -1.352                  | 0.1943                 | -0.14                  | 2.97                   | 3.776                  | -0.3744          | 0.4898           | 0.3012           |
| 133 | 0.2209                  | -0.02469                |                         | 1.625                  | -0.9791                |                        | 0.1572                 | 0.5866           | 1.261            | 1.292            |
| 134 | 1.922                   | 0.3466                  |                         |                        | -0.2477                | 1.862                  | 2.719                  | 1.478            | -0.3679          | -0.2065          |
| 135 | 1.306                   | 0.2906                  |                         | 0.0005078              | 0.7863                 | 1.016                  | 1.923                  | 0.9619           | -0.1939          | 0.0075           |
| 136 | 0.3133                  | 0.7377                  | 0.861                   | -0.4625                | 0.3233                 | 0.6133                 |                        | -0.001094        | 0.1431           | 0.05453          |
| 137 | 0.2117                  | 0.5361                  | 0.1895                  | -0.02402               | 0.3017                 | 1.062                  | 0.288                  |                  | 0.7515           | 0.553            |
| 138 | 0.878                   | 0.04242                 | 0.4958                  | 0.2223                 | 0.818                  | -0.522                 | -1.276                 | 2.434            | 0.4379           | 0.8193           |
| 139 | 0.3825                  | -0.01313                | -0.4198                 | 0.4168                 | 0.7825                 | -1.028                 | -0.6087                | 0.7781           | 0.2423           | 0.3037           |
| 140 | 0.505                   | -0.6406                 | -0.08727                | 0.7393                 | -0.315                 | -0.095                 | -0.6087                | 0.2506           | 1.235            | 0.6463           |
| 141 | 1.092                   | 0.6066                  | 2.06                    | 1.157                  | 1.462                  | -0.7077                | -1.091                 | -1.662           | -0.3279          | -1.056           |
| 142 | 0.58                    | -0.01562                | 0.9077                  | -0.4457                | 0.12                   | -1.7                   | -0.4637                | -0.4044          | -0.5902          | -1.169           |
| 143 | 2.047                   | 1.512                   | 1.185                   | 0.2014                 | 1.207                  | -1.223                 | -0.9465                | -2.317           | -4.313           | -4.212           |
| 144 | 1.075                   | 1.559                   |                         | 0.04926                | -0.835                 | -0.755                 | -0.03871               | -0.8594          | -0.5052          |                  |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | -1                      | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 145 | 0.7278                  | -0.007812               | -0.5245                 | 0.9121                 | -0.3322                | -0.4122                | -0.4559                | 0.7434           | 0.5576           | -0.7109          |
| 146 |                         | -0.8084                 | -0.4951                 | -0.6586                | 0.6072                 | 0.1672                 | -1.037                 | 1.033            | 0.347            | 0.07844          |
| 147 | 1.057                   | 0.3112                  | 1.075                   | -0.1289                | 0.4468                 | -1.293                 | -0.3969                | 0.02246          | -0.02336         | -2.922           |
| 148 |                         | 1.174                   |                         | 1.124                  | 0.99                   | 0.1                    | -0.3237                | -0.5244          |                  |                  |
| 149 |                         | 1.084                   | 0.1277                  | 0.2443                 | 1.35                   | -0.86                  |                        | -1.584           | -1.12            | -0.9988          |
| 150 | 0.7697                  | 0.08406                 | 0.6474                  | 0.7939                 | 0.6297                 | -0.09031               | -0.274                 | -1.745           | -1.081           | -2.069           |
| 151 | 0.7772                  | 0.08156                 | 0.2749                  |                        | 0.03719                | -0.7228                |                        |                  | -0.913           | -2.372           |
| 152 | 0.875                   | 0.3794                  | 0.4927                  | 0.3293                 | 0.405                  | -0.655                 | -0.4487                | -2.109           | -0.8352          | -2.084           |
| 153 | 0.675                   | 0.1294                  | 0.4427                  | 0.3093                 | 0.295                  | -0.515                 |                        | -2.169           | -0.8852          | -2.014           |
| 154 | 0.6594                  | 0.9237                  |                         | -0.05637               | 0.4694                 |                        | -0.05434               |                  | -1.591           | -1.919           |
| 155 | 0.15                    | 0.5144                  | -0.06227                | -0.1657                | 0.39                   | -1.75                  | -0.4637                | -3.754           | -1.31            | -2.149           |
| 156 | 0.17                    | 0.5444                  | -0.2423                 | -0.2757                | 0.39                   | -1.74                  | -0.1537                | -4.024           | -1.7             | -2.489           |
| 157 | 1.03                    | 1.054                   | 0.3777                  | -1.216                 | -1.14                  | 0.06                   | -0.6637                |                  | -1.52            | -1.299           |
| 158 | 0.7587                  | 0.2531                  | 0.08648                 | -0.997                 | -0.3913                | -0.6213                |                        | -1.836           | -2.691           | -2.59            |
| 159 | 0.415                   | 0.7194                  |                         | -0.9707                | -0.535                 |                        | -0.4887                | 0.01063          | 0.0748           | -0.4137          |
| 160 | 1.109                   | 1.233                   | -2.694                  | 0.1329                 | 0.7186                 | 2.149                  | 0.1049                 |                  | -2.172           | -1.63            |
| 161 | 1.01                    | 1.214                   | 0.4374                  | 0.1439                 | 0.8797                 | -0.1803                | 0.316                  | -1.215           | -0.8305          |                  |
| 162 | 0.04391                 | 0.08828                 |                         | 0.7782                 | 0.8539                 | -0.09609               | -0.0698                | 0.3395           | -0.4463          | -0.1648          |
| 163 | 0.62                    | 1.074                   | -0.7423                 | 0.8043                 | -0.35                  | -0.12                  | 1.426                  | -1.754           | -0.7202          | 0.1312           |
| 164 | 0.8658                  | 0.5802                  | -0.9265                 | -0.06996               | -0.9142                | -0.03422               | 0.9721                 |                  | -0.7644          | -0.663           |
| 165 | -0.1006                 | -0.3462                 | 0.2471                  |                        | 1.089                  | 0.9694                 | -0.1743                | 0.035            | -0.5808          |                  |
| 166 | 1.02                    | -0.3456                 | 0.9077                  | 1.624                  | 0.79                   | 1.24                   | 0.1663                 | 0.3856           | 1.52             | 1.021            |
| 167 | 1.1                     | -0.6956                 |                         | 1.094                  | 0.67                   | 0.33                   | -0.04371               | -0.1744          | 2.07             | 1.261            |
| 168 | 1.26                    | 0.8144                  | 0.9177                  |                        | -3.95E-09              |                        | -0.01371               |                  | 1.63             | 1.351            |
| 169 | 0.3679                  | -0.6877                 |                         | 1.022                  | 0.00793                |                        | 0.8842                 | 0.01355          | -0.4223          | 1.029            |
| 170 | 1.188                   | -0.5077                 | 1.176                   | -0.08785               | 0.9179                 | 0.6479                 | -1.006                 |                  | -0.3023          |                  |
| 171 | 0.11                    | 0.5244                  | 0.6677                  | 0.7543                 | -0.6                   |                        | -2.424                 | -1.754           | 0.0898           |                  |
| 172 | 1.625                   | -0.6706                 | 1.973                   | 0.03926                | 1.175                  | -0.365                 | -0.5687                | 0.5606           | 0.5748           | -0.7938          |
| 173 | 0.2283                  | 1.423                   | 2.706                   |                        | 2.448                  |                        | -0.06543               | -2.206           |                  | -1.22            |
| 174 | 1.25                    | 0.1642                  | 1.318                   | 0.9141                 | 0.9298                 | -0.3502                | -0.8039                | 0.2955           | 1.38             | 0.5811           |
| 175 | 1.077                   | 0.4214                  | 0.8847                  | 0.01125                | 0.477                  | 0.04699                | -0.8767                | 0.9326           | 0.5568           | 0.5582           |
| 176 | -0.3276                 | -0.003203               |                         | -0.5133                | -0.09758               |                        | -0.001289              |                  | -0.7078          | -1.146           |
| 177 | 0.7914                  | 0.5558                  | 0.05914                 | 0.4457                 | 1.221                  | -0.2786                | -0.1523                | -1.043           | -0.7188          | -1.207           |
| 178 | 1.17                    | 0.6544                  | 1.118                   | 1.894                  | 1.89                   | -0.31                  | -0.2237                | -0.2744          | 0.2898           | -0.4688          |
| 179 | 0.3035                  | -0.08209                |                         | 0.9478                 | 0.3935                 | -0.2865                |                        | -0.06084         | 0.9633           | 1.715            |
| 180 | 0.12                    | -0.1856                 | 0.2677                  | 0.6943                 | 0.74                   | -0.02                  | -0.6237                | 0.4956           | 0.6998           | 1.611            |



Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 181 | 0.1784                  | -0.2273                 | 0.2761                  | 0.6326                 | 0.6684                 | 0.01836                | -0.6354                | 0.184            | 0.9282           | 0.1296           |
| 182 | 0.73                    | 0.7544                  | 1.108                   | 0.1843                 | 0.63                   | 0.35                   | -0.2737                | -0.2444          | -0.3002          | -1.109           |
| 183 | 1.018                   | 0.8821                  | 1.245                   | 0.302                  | 0.6277                 | 0.4177                 | -0.376                 | -0.2766          | -0.7225          | -1.121           |
| 184 | 0.2155                  | 0.1398                  | 0.4732                  | 0.5397                 | 0.5655                 | 0.04547                | -0.2782                | -0.9289          | 0.09527          | -0.4833          |
| 185 | 0.7052                  | 0.2295                  | 0.6629                  | 0.5394                 | 0.5952                 | -1.035                 | 0.3314                 | -3.779           | -1.165           | -3.044           |
| 186 | 0.33                    | 0.02437                 | 1.078                   | 0.7443                 | 0.82                   | 0.79                   | 0.03629                | -1.154           | -0.1302          | -1.079           |
| 187 | 0.8575                  |                         | 1.025                   | 0.9818                 | 2.057                  | 0.5975                 | -0.2062                | -3.357           | -1.233           | -2.091           |
| 188 | 0.2039                  | 0.7183                  | 1.442                   | 0.8782                 | 1.104                  | 0.3439                 | -0.2198                | -1.88            | -0.9363          | -1.515           |
| 189 | 0.118                   | 0.1323                  | 1.636                   | 0.5522                 | 1.068                  | 0.928                  | 0.1043                 | -1.566           | -0.1922          | -1.191           |
| 190 | 0.02                    | 0.4444                  | 1.558                   | 0.6243                 | 1                      | 0.91                   | 0.06629                | -1.434           | -0.2602          | -1.239           |
| 191 | 1.725                   | 0.09902                 | 1.282                   | -0.6411                | 0.2946                 | 0.7546                 | -0.8491                | -1.43            | 0.02445          | -0.8041          |
| 192 | 0.4659                  | 0.3103                  | 0.4537                  | 0.3102                 | 0.2859                 | 0.01594                | -0.04777               | -0.8684          | -0.9443          | -1.043           |
| 193 | 0.9845                  | 0.5289                  | 0.8223                  | -0.9212                | -0.7755                | 0.8545                 | 0.0008203              | -0.7498          | 0.8543           | 0.1358           |
| 194 | 0.05563                 | 0.26                    | 0.3634                  | 0.2799                 | 1.086                  | -0.2844                | -0.1781                | -0.1787          | 0.2754           | 0.3069           |
| 195 | 0.3979                  | 0.2623                  |                         | 0.1822                 | 1.088                  | -0.05207               | -0.1858                |                  | 0.1577           | 0.4492           |
| 196 | 0.8604                  | 0.09482                 | 0.3682                  |                        | 0.5204                 | 0.3504                 | -0.1033                | -0.03393         | 0.6103           | 0.7317           |
| 197 | 0.7048                  | 0.2791                  | 0.7625                  | 0.789                  | 0.7448                 | 0.01477                | 0.001055               | 0.2404           | -0.7954          | -1.024           |
| 198 | 0.66                    | 0.3444                  | 0.4777                  | 0.7443                 | 0.98                   |                        | -0.1737                |                  | -0.9502          | -1.299           |
| 199 | 0.4858                  | 0.2202                  | 0.7336                  | 7.81E-05               | 0.00582                | 0.3658                 | -0.6479                |                  | 0.6856           | 0.4971           |
| 200 | -0.005                  | 0.2494                  |                         | 0.5393                 | 0.365                  | 0.035                  | -0.7187                | 0.2906           | 0.0148           | 0.01625          |
| 201 | 0.5902                  | 0.1045                  | 0.4679                  | 0.5344                 | 0.6302                 |                        |                        | 0.6458           | 0.11             | 0.9314           |
| 202 | 0.04109                 | -0.05453                | 1.229                   | 1.845                  | 1.181                  |                        | 1.347                  | -0.1333          | 0.7209           | 1.342            |
| 203 | 0.2                     | -0.1456                 | 0.3177                  | 1.694                  | 0.92                   | 0                      | 0.2963                 | -0.5244          | 0.8498           | 1.181            |
| 204 | 1.327                   | 0.1716                  |                         | 1.701                  | 2.297                  |                        | -0.06652               | -0.6872          | 0.657            | 1.388            |
| 205 | 0.877                   |                         | -0.4153                 | -1.269                 | -1.143                 | 0.797                  | 0.8132                 | 0.2026           | 0.2268           | -0.7418          |
| 206 | 1.234                   | 0.6587                  |                         |                        | 0.5644                 | -0.1856                |                        | 0                | 0.3342           | -0.6944          |
| 207 | 0.02281                 | 0.4672                  | 0.4805                  | -0.2829                | 0.9828                 |                        | -0.0909                | 1.708            | 1.183            | 1.704            |
| 208 | 0.6025                  | -0.5631                 | 1.33                    | 0.8768                 | 0.9225                 | 1.282                  | 0.3988                 | 1.828            | 0.6123           | 0.4737           |
| 209 | 0.6547                  | 0.8591                  | 0.2424                  | -0.5011                | -0.1053                | -0.4253                |                        | 0.8003           | 1.714            | 1.146            |
| 210 | 0.12                    | 0.6344                  | 0.03773                 | -0.9757                | -0.6                   | -0.66                  | -0.3437                | 0.6956           | 1.11             | 0.3113           |
| 211 | 0.8433                  | 0.4077                  | 1.091                   | 0.5375                 | 1.103                  | 0.9433                 | -0.7404                | 1.039            | 1.133            | 1.025            |
| 212 | 0.5356                  | 0                       | 0.4034                  | 0.2499                 | 0.2556                 |                        | 0.1219                 | 0.1913           | 1.545            | 0.7169           |
| 213 | 0.725                   | 0.9794                  | 0.4127                  | -0.3807                | -0.275                 | -0.505                 | -0.5387                | 0.5906           | 0.5348           | 0.1463           |
| 214 | 0.108                   | -0.1477                 |                         | 0.1922                 | 0.638                  | 0.288                  | 0.1143                 | 0.3936           | 0.9978           | 0.05922          |
| 215 | 0.3729                  | 0.8473                  | 0.4706                  | -1.133                 | 0.06289                | -0.4871                | -1.011                 | -0.7315          | -0.0173          | -0.1359          |
| 216 | 1.205                   | 1.529                   | 0.7727                  | -0.2507                | 0.735                  | 0.585                  |                        | -0.5894          | -0.2252          | -0.3137          |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | -1                      | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 217 | 0.5561                  | 0.2705                  | -0.1262                 | -0.3096                | -0.3039                |                        | 0.05238                |                  | 0.2859           | -0.9427          |
| 218 | -0.2612                 | -0.3769                 | -0.09352                | -1.037                 | -0.1113                | -0.4013                | 0.665                  | -1.246           | -0.8114          | 0                |
| 219 | -0.02                   | -0.2256                 |                         | -0.3557                | 0                      |                        | -0.7037                |                  | -0.3202          | -0.09875         |
| 220 | 0.93                    | -0.05563                |                         | 0.06426                | -1.07                  |                        | 0.4063                 |                  | -0.0402          | -0.1488          |
| 221 | 0.02375                 |                         |                         | -1.052                 |                        |                        | 0.4                    | -0.1706          | -0.8264          | -0.485           |
| 222 | 0                       | -1.086                  | 0.4477                  | -1.516                 | -1.81                  | 0.03                   | -0.7937                |                  | 0.4798           | 0.2812           |
| 223 | 0.7825                  | 0.3469                  |                         | -0.6832                | -1.238                 | -0.9875                | 0.3288                 | 0.05812          | -1.388           | -1.236           |
| 224 | 0.1383                  | -0.02734                |                         |                        | -1.182                 |                        | -0.2954                |                  | -1.222           |                  |
| 225 | 0.3841                  | -0.3316                 |                         | -0.6817                | -0.5859                | -0.9459                | 0.5404                 | 0.7797           | -0.2461          |                  |
| 226 |                         | 0.4894                  |                         | -0.8607                | -0.245                 | 0.025                  | 1.261                  | -0.01937         | -0.0452          | 0.9863           |
| 227 | 0.375                   | 0.1694                  |                         | 0.1293                 | 0.255                  | -0.295                 | 0.3213                 |                  | -0.0752          | 1.456            |
| 228 | 1.35                    | -0.4856                 | 0.5477                  |                        | -0.67                  | 1.54                   | 0.1263                 | 0.6456           | 1.16             | 1.261            |
| 229 | 1.13                    | 0.6844                  | -1.592                  | -0.07574               | -0.19                  | 2.88                   | -0.7537                | 0.5756           | 0.6598           | 0.4113           |
| 230 | 0.05031                 | 0.07469                 |                         | -0.4454                | -0.7497                | 0.7103                 | 0.6466                 | 1.096            | 1.58             | 1.492            |
| 231 | 0.07586                 | 0.02023                 | 0.07359                 | -0.2599                | -1.774                 | 1.016                  | 0.8921                 | 1.621            | 1.566            | 1.467            |
| 232 | 0.415                   | 0.8194                  | -0.4273                 | -1.701                 | -0.655                 |                        | 0.2013                 | 1.601            | 0.4548           | 0.3763           |
| 233 | 0.1931                  | -0.8525                 |                         | -0.2226                | -1.877                 |                        | 0.3394                 |                  | 1.033            | 0.04437          |
| 234 | 0.82                    | 0.6844                  | -0.1123                 | -0.5757                | -2.7                   |                        | 0.1263                 | 0.7056           | 1.21             | 0.4612           |
| 235 | 1.057                   | 0.8313                  | -0.5553                 | 0.2512                 | -0.523                 | -0.583                 | 0.4032                 | 0.5926           | 1.107            | 0.5282           |
| 236 |                         | 0.6037                  |                         |                        | -0.3906                |                        | 0.4557                 |                  | -0.4608          | -1.399           |
| 237 | -0.04438                | -0.52                   | -0.09664                | -1.93                  | -1.554                 | 0.5956                 | 0.7819                 |                  | 0.5254           | -0.1831          |
| 238 | 0.3978                  | -0.02781                |                         | -0.4379                | -0.4822                | 1.508                  |                        | 0.6734           | -0.7424          | -0.5209          |
| 239 |                         | -0.2609                 | 0.8724                  | -0.9611                | -0.7153                | 0.09469                | 0.08098                | 0.6703           | -1.196           | -0.1541          |
| 240 | -0.3387                 | -0.2744                 | -0.791                  | -0.8245                | -0.8288                | -0.1688                | 0.2975                 | 0.8269           | 0.3411           | 0.1825           |
| 241 | -0.4638                 | 0.01055                 | -0.3161                 | -0.9796                | -1.054                 | 0.4062                 | 0.4325                 | 0.7818           | 0.566            | 0.09742          |
| 242 | 0.01                    | -0.2856                 | -0.09227                | -0.3157                | -1.81                  | 0                      | 0.5163                 | -0.02437         | 0.8698           | 0.3913           |
| 243 | 0.2212                  | 0.8556                  | 0.659                   | -1.584                 | -0.6088                |                        | 0.1575                 | 1.097            | 0.4311           | 1.512            |
| 244 | -0.5195                 | -0.2351                 | -0.2317                 | 0.6848                 | 0.1405                 | 0.5605                 | 0.5968                 | 2.056            | 0.9104           | 1.432            |
| 245 | -0.3225                 | -0.1681                 | -0.1248                 | -1.358                 | -0.9225                | 0.4475                 | 0.03379                | 0.04313          | 0.1973           | -0.08125         |
| 246 | -0.7555                 | -0.6511                 | -0.8177                 | -1.961                 |                        | 0.3745                 | 0.0008203              | 0.8802           | -0.5657          |                  |
| 247 | -0.5182                 | -0.2938                 | 0.6295                  | -1.694                 | -1.498                 | 0.4918                 | 0.5981                 | 0.6874           | 0.2316           | 0.253            |
| 248 | -0.1659                 | 1.099                   | 0.4719                  | -1.112                 | 0.7841                 | -0.6759                | -0.6696                | 1.29             | -0.7061          | 0.3554           |
| 249 | -0.355                  | -0.07063                | -1.187                  | -1.281                 | -0.965                 |                        | -0.06871               | 0.5706           | -0.1152          | -0.4138          |
| 250 | 1.877                   | 1.951                   | -0.9453                 | 0.3312                 | 0.527                  | 0.187                  | -0.4968                | 1.193            | 0.8368           | 1.458            |
| 251 | 0.7283                  | 1.003                   | 1.446                   |                        | -0.5317                | 0.6383                 | 1.665                  | 1.404            | 0.3281           | 0.9695           |
| 252 | 0.695                   | 0.4194                  | 1.213                   | -0.7507                | -0.615                 | 0.385                  | 1.101                  | 1.121            | 0.1648           | 0.7063           |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | -1                      | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 253 | -0.52                   | -0.05563                | 1.068                   | 0.4043                 | -0.04                  | 0.92                   | 1.076                  | -1.164           | 0.7898           | 1.591            |
| 254 | 0.09492                 | -0.3907                 | 0.1727                  | -0.7108                | -0.3651                | 0.1049                 | 0.4212                 | 0.1005           | 0.1447           | 0.8362           |
| 255 | -0.3778                 | 0.02656                 |                         | 0.6064                 | 0.5322                 |                        | 0.5185                 | 0.01781          | 2.872            |                  |
| 256 | 0.1636                  | 0.108                   |                         | 0.5379                 | 0.8036                 |                        | 0.09988                | -0.2708          | 0.4134           | 1.525            |
| 257 | 0.6668                  | 0.8912                  |                         | -0.3789                | 0.8868                 |                        | -0.1069                | -0.9976          | -0.9234          | -1.612           |
| 258 | 0.5783                  | -0.2873                 | 0.286                   |                        |                        |                        | 0.3546                 |                  | -0.1719          | -1.75            |
| 259 | 0.5494                  | 1.924                   | 0.6971                  | 1.114                  | 0.1194                 | -0.3306                | -0.3043                | -0.965           |                  | -0.5494          |
| 260 | 0.1888                  | 0.6531                  | 0.7765                  | -0.887                 | -0.3113                | -1.271                 | -0.675                 |                  | -0.8214          | -0.61            |
| 261 | -0.6175                 | -0.4431                 | -0.04977                | -0.7932                | -0.0775                | 1.442                  | 0.7888                 |                  | -0.5577          |                  |
| 262 | -0.5061                 | 0.1283                  |                         | -2.392                 |                        | -0.8661                | 0.4502                 | 0.9895           | -0.5063          |                  |
| 263 | -0.2139                 | -0.6395                 | 0.6038                  | -0.9596                | -0.4739                |                        | -0.3776                | 0.1517           | -0.5641          | -0.3127          |
| 264 | -0.135                  | 0.03937                 | -1.777                  | 0.1693                 | -0.245                 | -0.805                 | -0.2287                |                  | 0.5648           | -2.554           |
| 265 | 0.4883                  | -0.5673                 | -1.144                  | -0.8275                | -0.9017                | 0.1083                 | 0.3546                 | 0.5639           | -0.6919          | -3.56            |
| 266 | 0.6728                  | -0.1128                 | 0.4305                  | 0.5571                 | 1.203                  | -0.4172                | 0.009102               | -1.312           | -0.4674          | -1.036           |
| 267 | 0.6574                  | 0.3318                  | 0.7051                  | -0.03834               | 0.6474                 |                        | 0.08369                | 0.573            | -0.1528          | -0.2413          |
| 268 | 2.186                   | -0.8896                 | 0.2438                  | -0.02969               | 0.2761                 | 0.5061                 | -0.5777                | 0.4217           | 0.005859         | 0.0173           |
| 269 | 1.702                   | 2.937                   | -7.81E-05               | -0.4936                | 0.3022                 | -0.7178                | -0.6015                | -0.2022          | 0.692            | -0.2066          |
| 270 | -0.6264                 | 0.348                   |                         | -0.3021                | -0.3964                |                        | 0.2599                 | -0.2008          | 0.5434           | 0.3048           |
| 271 | 1.206                   | -0.6594                 | -2.246                  | -0.8595                | -0.6637                | -0.6838                | 0.3425                 | -2.898           | -0.02395         | -1.502           |
| 272 | 0.46                    | -0.2456                 |                         | -0.3757                | -0.18                  | 0.93                   | 0.04629                | -0.3144          | -0.8202          | -0.8688          |
| 273 | 0.4659                  | 0.3102                  |                         | 0.02012                | -0.03414               | 0.3659                 | -0.2379                |                  | -0.07434         | -0.3729          |
| 274 | -0.2409                 | -0.5965                 | -0.5431                 | -0.4066                | 0.3691                 | -0.2109                | -0.6746                | 1.675            | 0.4189           | 0.3304           |
| 275 | -0.32                   | 0.4544                  | 0.03773                 | -0.6857                | -0.34                  | -0.53                  | 0.3463                 | -0.7944          | -0.2902          | 1.351            |
| 276 | -0.4179                 | -0.2435                 | 0.7099                  | -0.1536                | 0.4521                 | -0.5979                | 0.2184                 |                  | 0.01195          | -0.1566          |
| 277 | 0.77                    | -0.8156                 | 0.06773                 | -1.626                 | 0.41                   | 0.6                    |                        | -0.5644          | -0.4902          | 0.7612           |
| 278 | 0.2394                  | -0.6162                 | -0.002891               | -1.516                 | -0.5706                | 2.299                  |                        | -0.455           | 1.469            | 1.131            |
| 279 | -0.5122                 | 0.002188                | -0.1345                 | -1.008                 | -0.7722                | 0.2178                 | -0.7159                |                  | -1.262           | -0.8009          |
| 280 | -0.23                   | -1.056                  | -0.1723                 | -0.5057                | -0.2                   | -0.24                  | -0.4237                | 0.3056           | 0.0698           | -0.02875         |
| 281 | -0.78                   | -0.01562                |                         | -0.7657                | -0.49                  |                        | -0.6237                | 0.2856           | -0.9602          |                  |
| 282 | 0.2278                  | 0.03219                 |                         | 0.4021                 |                        | -0.1722                | 0.2241                 |                  | -0.08238         |                  |
| 283 | -0.6553                 | -1.191                  | 0.03242                 |                        | -0.1553                | 0.2247                 | 0.04098                | 0.1303           | -0.5155          | 0.01594          |
| 284 | 0.61                    | 0.6444                  | 0.1477                  | -0.03574               | 0.36                   | 2.05                   | 2.096                  | -1.074           |                  |                  |
| 285 | 1.037                   | 0.8116                  | -0.8851                 | -1.459                 | -0.2128                |                        | -0.09652               | 0.8328           | -0.523           | 0.4484           |
| 286 | 0.0925                  | -0.4531                 | 0.8502                  | -1.333                 | -1.387                 |                        | 0.6688                 | 0.2681           | 0.5123           | -0.2962          |
| 287 | -0.3545                 | -0.3101                 | 0.9332                  | -1.04                  | -1.324                 | -0.4545                | 1.082                  | 0.9011           | 0.4953           | -0.003242        |
| 288 | 0.2494                  | 0.2037                  | 0.1671                  | 0.4236                 | 0.5094                 | -0.3406                | 0.07566                |                  | 0.3192           | 0.02062          |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 289 |                         | 0.09813                 | 0.2615                  | 0.958                  | -0.2363                | 0.4437                 | -0.31                  | 1.819            | 1.034            | 1.715            |
| 290 | -0.2945                 | -2.57                   |                         | 1.47                   | -0.5245                | 1.326                  | 0.6918                 | 2.831            | 4.125            | 3.857            |
| 291 | -0.09414                | 0.9402                  | -0.4664                 | 0.3901                 | -0.05414               | 0.1859                 | 0.2921                 | 4.751            | 2.656            | 3.337            |
| 292 | 0.32                    | -0.4056                 | -0.2323                 | 0.5043                 | 0.27                   | 0.56                   | 0.4763                 | 0.5256           | 0.9598           | 0.4512           |
| 293 | 0.008594                |                         | 0.3163                  | 0.7529                 | -0.1614                | 0.1686                 | 0.2949                 | 0.3242           | 0.5384           | 0.5698           |
| 294 | -0.34                   | 0.6344                  | 0.2377                  | 0.2743                 | 0.1                    | -1.05                  | 0.4363                 | 0.2156           | 0.0298           | 0.3613           |
| 295 | 0                       | -0.1156                 | 0.7777                  | 0.3143                 | 0.55                   | 0.84                   |                        | 2.456            | 1.32             | 2.771            |
| 296 | 0.2748                  | -0.2408                 | 0.7825                  | 1.579                  | 0.8948                 | 0.9648                 | 0.3211                 | 2.47             | 1.855            | 2.336            |
| 297 | 0.2617                  | 0.2861                  | -0.2605                 | 0.02598                | -0.2783                |                        |                        | 1.397            | 1.282            | 1.173            |
| 298 | 0                       | -0.04562                | -0.7223                 | 0.7443                 | 0.9                    | 0.49                   | -0.1337                | 1.546            | 0.2698           | -0.3888          |
| 299 | -0.1622                 | -0.4378                 | -0.4045                 | 0.2521                 | -1.852                 | 0.5078                 | 1.014                  | 2.453            | 2.258            | 3.079            |
| 300 | 0.6825                  | -0.2331                 |                         | -0.2332                | -1.208                 | 1.182                  | 0.8388                 | -1.072           | 0.8923           | 0.09375          |
| 301 | 0.18                    | 0.2544                  | -0.5423                 | -0.2757                | -0.44                  | -0.02                  | 0.1963                 | -1.384           | 0.4698           | -0.3788          |
| 302 | 0.372                   | 0.5163                  | -0.05031                | 0.8262                 | 0.592                  | 0.462                  | -0.3318                | 0.7576           | 0.8218           | 0.5232           |
| 303 | 1.202                   | 0.2169                  | 0.4902                  |                        | 0.9525                 | 0.7725                 | 1.269                  |                  | 1.582            | -0.6963          |
| 304 | 0.1558                  | 0.4402                  | -0.8164                 | -0.3399                | -0.4442                | -0.5342                | 0.3221                 | -0.8586          | -0.9644          | -0.5829          |
| 305 | 0                       | 0.6644                  | -1.002                  | -0.5057                | -0.48                  | -0.56                  | 0.3363                 | -0.6444          | -0.9202          | -0.4588          |
| 306 | -0.6356                 | -0.4613                 | -0.6879                 | -1.071                 | -0.4056                | 0.9844                 | 0.7807                 | 0                | 0.3342           | -0.2544          |
| 307 | 0                       | 0.1644                  | -0.1823                 | -0.3157                | -1.7                   | 1.63                   | 1.646                  | -1.084           | 0.5198           | -0.1388          |
| 308 | -0.6627                 | -0.5283                 |                         | -0.8984                |                        | -0.1927                | 0.6936                 | -0.237           | 0.03715          |                  |
| 309 | 0.4975                  | -0.3381                 | 0.6552                  |                        | -0.3625                | -0.5025                | -0.5562                | 0.5231           | -0.1627          | 0.6288           |
| 310 | -0.4254                 | -1.041                  | 1.042                   | -0.06109               | -0.5254                | -0.5854                | -0.08906               | 1.81             | -0.05555         | 1.456            |
| 311 | -0.3397                 | -0.09531                | 1.138                   | -0.4054                | 0.2903                 | -1.2                   | -0.1334                | 1.196            | -0.1799          | -2.248           |
| 312 | 0.03                    | -0.3356                 | 1.518                   | -0.4857                | -0.44                  | -1.06                  | -0.2437                | 0.6156           | -0.1702          | 1.581            |
| 313 | -0.04563                | -0.4312                 | 1.002                   | -0.6314                | -0.4956                | -1.416                 | -0.07934               | 0.6              | 0.04418          | 1.646            |
| 314 | -0.1239                 | -0.4995                 | 1.084                   | -0.04965               | -0.3739                | -1.174                 | -0.4376                | 1.032            | 0.0559           | 1.367            |
| 315 | -0.2496                 | -0.5553                 | 0.8281                  | -0.01539               | -0.3296                | -0.6096                | 0.1166                 | 0.676            | 0.03016          |                  |
| 316 | -0.13                   | -0.03563                |                         | 0.7843                 | 1.7                    |                        | 0.5263                 |                  | 0.2698           | 0.7412           |
| 317 | -0.6975                 | -0.1231                 | -1.4                    |                        | 0.1325                 | -0.0575                |                        | -0.1019          | -0.2977          | 0.1938           |
| 318 |                         | -0.4756                 |                         |                        | 0.03                   |                        |                        | 0.5556           | -0.0602          | -0.08875         |
| 319 | 0.245                   | 0.7594                  | -0.8673                 | -0.07074               | -0.175                 | -1.095                 | 0.3213                 | -1.449           | -1.325           | -1.324           |
| 320 | -0.1027                 | 0.7217                  | -0.1849                 | -0.008398              | 0.7273                 | 0.3373                 | 0.08363                | -1.937           | -1.003           | -1.391           |
| 321 | 0.3872                  | -0.08844                | 0.04492                 | -0.07855               | 0.4172                 | -0.2028                | -0.9865                | 0.3428           | 0.317            |                  |
| 322 | -0.395                  | -0.1406                 | 0.002734                | -0.2207                | -0.285                 | 0.195                  | 0.07129                | -1.039           | 0.4348           | -0.1337          |
| 323 | -0.2442                 | 0.1902                  | -0.3565                 | 0.48                   | 1.096                  | -0.4042                | -0.04793               | -0.4486          | 0.1356           | -0.07297         |
| 324 | 0.13                    | -1.006                  | -1.362                  | 0.1743                 | 0.37                   | -0.33                  |                        | 0.2456           | 0.2198           | 0.5412           |

Table 1

|     | NORWAY 39-AF | NORWAY 39-BE | NORWAY 15-AF | STANFORD 17 | STANFORD 35 | NORWAY 14-AF | NORWAY 14-BE | NORMAL  | NORMAL  | NORMAL   | NORMAL   |
|-----|--------------|--------------|--------------|-------------|-------------|--------------|--------------|---------|---------|----------|----------|
|     | ARRY27X      | ARRY26X      | ARRY47X      | ARRY49X     | ARRY48X     | ARRY5X       | ARRY4X       | ARRY6X  | ARRY8X  | ARRY7X   | ARRY7X   |
|     | 1            | 1            | 1            | 1           | 1           | 1            | 1            | 1       | 1       | 1        | 1        |
| 325 | 0.555        | -0.3006      | -1.327       | 0.1293      | -0.085      | -0.445       | -0.8387      | 0.3506  | 0.1948  | 0.1863   | 0.1863   |
| 326 | 0.2086       | -0.557       |              | 0.3829      | -0.4214     | -0.6114      | -0.03512     | 1.304   | 1.148   | 0.8598   | 0.8598   |
| 327 |              | -0.09344     | 0.08992      | 0.1864      | -0.5178     | 0.2422       | 0.6385       |         |         | 1.173    | 1.173    |
| 328 | -0.5978      | -0.2734      | -0.2301      | 0.6764      | 0.1122      | 0.1322       |              | 0.7578  | 1.912   | 1.623    | 1.623    |
| 329 | -0.4         | -0.5556      | 0.09773      | 0.3843      | -0.34       | 0.39         | 0.6363       | 0.5756  | 2.15    | 1.421    | 1.421    |
| 330 | -0.2878      | -0.4734      | -7.81E-05    | 1.016       | 0.2322      |              | 0.8985       | 0.6678  | 2.212   | 1.813    | 1.813    |
| 331 | -0.01        | -0.2256      | -0.2023      | -0.7657     | -0.28       |              | 0.1663       | 1.726   | 0.6198  |          |          |
| 332 | -0.3175      | 0.1969       | -0.06977     | 0.05676     | -0.2575     |              | 0.7588       | 1.078   | -0.0577 | -0.02625 | -0.02625 |
| 333 | -0.095       | -0.06062     | 0.7127       | -0.1707     | -0.555      | 0.385        | 1.031        | -0.5194 | 0.4348  | -0.5037  | -0.5037  |
| 334 | 0.2          | -0.06563     | 0.2877       | -0.4657     | 0.19        | -1.03        | -0.8237      | -0.4944 | 0.1598  | -0.2388  | -0.2388  |
| 335 | -0.4939      | -0.4095      | -0.9262      | -0.4496     | -0.3439     | 0.5161       | -0.2476      | 0.5117  | 1.166   | 0.6273   | 0.6273   |
| 336 | 1.035        | 1.38         | 0.163        | -0.02049    | 0.6353      | -0.5947      | -0.9285      | -0.5491 | 0.3151  | 0.4365   | 0.4365   |
| 337 | 0.6475       | 0.2419       | -0.1748      | 0.3418      | -0.1425     | 0.1275       | -0.7462      | 1.923   | 1.697   | 1.379    | 1.379    |
| 338 | -0.4343      | -0.4899      | -0.5566      | -3.91E-05   | 0.0357      | 0.8157       | 0.662        | 0.4613  | 0.7755  | 0.637    | 0.637    |
| 339 | 0.88         | 1.344        | -0.3823      | 0.5143      | 0.57        | -0.72        | 0.01629      | 0.01562 | 0.1998  | 0.05125  | 0.05125  |
| 340 | 0.45         | -0.1256      | -0.07227     | 0.5843      | 0.93        | 0.15         | -0.1737      | 2.136   | 1.93    | 1.701    | 1.701    |
| 341 | -0.135       | -0.2906      | -0.2873      | -0.1607     | 0.035       | -0.655       | 0.05129      | 2.931   | 2.215   | 2.016    | 2.016    |
| 342 | 0.2914       | -0.1142      | -0.04086     | -0.8843     | -0.2686     | 0.6214       | 0.5577       | 3.897   | 2.651   | 2.423    | 2.423    |
| 343 | 0.05555      | -0.5101      | -0.5067      | -0.2802     | 0.5055      | 0.1055       | -0.2982      | 1.991   | 1.265   | 1.037    | 1.037    |
| 344 | 0.1          | 0.2444       | -0.4123      | -0.6557     | -0.32       | 0.04         | -0.3937      | 1.966   | 1.48    | 1.201    | 1.201    |
| 345 | 0.4872       | 0.4316       | -1.085       | -0.3386     | -0.4828     |              | 0.2435       | 0.6228  | 1.017   | 0.7884   | 0.7884   |
| 346 | 0.58         | 0.3844       | -0.5023      | -0.09574    | 0.07        | -0.91        | 0.3063       | 0.5856  | 0.7798  | 0.4812   | 0.4812   |
| 347 | 0.4          | 0.9344       | 0.4077       | 0.1843      | 0.2         | -0.18        | -0.9537      | -0.7344 | 0.7298  | 0.4412   | 0.4412   |
| 348 | -0.03219     | 0.002187     | -0.8545      | -0.00793    | -0.3422     | -0.6822      | 0.1141       | 0.8534  | -0.1524 | 0.2291   | 0.2291   |
| 349 | -0.2325      | 0.1519       |              | 0.1518      | -0.4225     | -1.643       | 0.6038       | -0.1969 | -0.2927 | -0.5812  | -0.5812  |
| 350 | 0.1          | 0.5644       |              | 0.1443      | 5.31E-10    | -0.8         | -0.4337      | 0.4756  | 0.5898  | 0.3613   | 0.3613   |
| 351 | -0.1342      | 0.2902       | -0.8565      | 3.91E-05    | -0.4542     | -0.5442      | 1.122        | -0.1786 | 0.4856  | 0.437    | 0.437    |
| 352 | 0.3835       | 0.3979       | 0.5412       | -0.9022     | -1.147      | 0.1035       | -0.1402      |         | 0.5933  | 0.4447   | 0.4447   |
| 353 | 0.18         | -0.5356      |              |             |             | 2.53         | 1.136        | 1.976   | -0.2002 |          |          |
| 354 | 0.695        | 0.4494       | -0.6573      | -1.191      | -0.055      | -0.915       | -0.7487      | -0.6394 | -0.1152 | -0.5238  | -0.5238  |
| 355 | 0.0925       | -0.1531      | 0.1102       | 0.2068      | 0.7425      | -0.8375      | -0.4712      | -0.2419 | 0.6523  | 0.2638   | 0.2638   |
| 356 | 0.118        | 0.1523       |              | 0.7322      | -0.02203    | 0.588        | 0.4143       | 0.1136  | -0.5378 | 0.8392   | 0.8392   |
| 357 | -0.1928      | 0.2716       |              | 0.4214      | -0.02281    | -0.3228      | -0.01652     | 0.1728  | 0.647   | 0.9284   | 0.9284   |
| 358 | -0.1577      | -0.1434      | 1.05         | 2.087       | -0.8477     | 0.3623       | 2.419        | 0.4379  | 1.632   | 1.244    | 1.244    |
| 359 | -0.1836      | 0.02078      | 0.8141       | 1.491       | -1.024      | -0.08359     | 2.163        | 0.242   | 1.266   | 0.8677   | 0.8677   |
| 360 |              | 0.1983       | -1.608       | -0.9618     | -1.186      |              | -0.0398      | 0.8495  | 0.4437  | 0.4152   | 0.4152   |

Table 1

|     | NORWAY 39-AF | NORWAY 39-BE | NORWAY 15-AF | STANFORD 17 | STANFORD 35 | NORWAY 14-AF | NORWAY 14-BE | NORMAL   | NORMAL   | NORMAL     |
|-----|--------------|--------------|--------------|-------------|-------------|--------------|--------------|----------|----------|------------|
|     | ARRY27X      | ARRY26X      | ARRY47X      | ARRY49X     | ARRY48X     | ARRY5X       | ARRY4X       | ARRY6X   | ARRY8X   | ARRY7X     |
| 361 | 1            | 1            | -1           | 1           | 1           | 1            | 1            | 1        | 1        | 1          |
| 362 | 0.075        | -0.3606      | -0.6773      | -1.711      | -1.515      | 1.265        | 0.2213       | 0.3706   | 0.0348   | -0.08375   |
| 363 | 0.2261       | -0.2295      | 0.01383      | -0.3496     | -1.074      | -0.7539      | -0.6376      | 0.4617   | 0.2159   | -0.1027    |
| 364 | 0.1725       | 0.01688      | 0.1902       | -0.5632     | -0.6775     | -0.4875      | 0.3288       | 0.7381   | 1.342    | 0.6238     |
| 365 | -0.7775      | -0.7331      | 0.1902       | -0.1132     | 0.0725      |              | 0.2188       | 1.318    | 1.872    | 1.584      |
| 366 | 0.19         | 0.03437      | -0.3623      | 0.7443      | 1.27        | 0.01         | 0.2463       | 0.9356   | 0.7898   | 1.211      |
| 367 | 0.06031      | 0.06469      | -0.632       | -0.2854     | -0.1297     | -0.1897      | -0.2134      | -0.2141  | 0.4101   | 0.2016     |
| 368 | -0.06        | -0.4356      | -0.07227     | 0.3643      | -0.18       | -0.09        | -0.5837      | 1.306    | 2.19     | 1.991      |
| 369 | -0.2015      | -0.1271      | 1.216        | 1.073       | 0.7185      | 0.3285       | -0.4452      | 0.3341   | 0.1183   | -0.0002344 |
| 370 | 1.06         | -0.2756      |              | -0.2557     |             |              | -0.05371     | 1.056    | -0.8602  | -0.7588    |
| 371 | -1.108       | -0.1738      |              | -0.05387    | 0.4619      |              | 0.8982       |          | -1.118   |            |
| 372 | -0.6         | -0.8056      | -1.242       | -0.005742   | -1.26       | 0.45         | 0.2263       | 1.066    | 1.18     | 0.6312     |
| 373 | -0.03406     | -0.2697      | -0.5363      | 0.5402      | -0.4341     | -0.02406     | 0.1522       | 0.3016   | 0.8157   | 0.9172     |
| 374 | 0.13         | -0.4056      | -1.122       | 0.2843      | -0.19       |              | 0.1663       | 0.7856   | 1.71     | 0.7413     |
| 375 | -0.02859     | -0.07422     | 0.1391       | -0.03434    | 0.1114      | 0.7814       | 0.0977       | 1.077    | 2.251    | 1.673      |
| 376 | 0.5922       | 0.7566       | -7.81E-05    | -0.2536     | 0.1222      | 1.002        | 0.01848      | 1.428    | 1.762    | 1.253      |
| 377 | 0.5744       | -0.5612      |              | 0.4386      | -0.3044     |              | -0.1493      | 1.75     | 1.514    | 1.816      |
| 378 | -0.03        | -0.3356      |              | -0.03574    | 0.16        | 0.38         | 1.216        | 0.5256   | 0.9998   | 0.9612     |
| 379 | 0.47         | 0.2044       | -0.6123      | 0.2243      | -1.06       | 0.88         | 1.096        | 1.646    | 1.18     | 1.001      |
| 380 | -0.2428      | -0.2184      | 0.09492      | 0.7114      | 0.2572      | 1.447        | -0.7765      | 1.603    | 1.627    | 1.948      |
| 381 | -0.3641      | 0.1503       | -0.7963      |             |             | -0.3641      | 0.1522       | 0.3516   | 0.1357   | 0.2872     |
| 382 | -0.3675      | -0.04313     | 0.2502       | 0.01676     | -0.4375     |              | 0.1888       | -0.1319  | 0.8723   | -0.2663    |
| 383 | 0.7287       | 0.003125     | 0.09648      | 0.283       | 0.4987      | -0.08125     | -0.935       | -0.05563 | 0.4786   | 0.99       |
| 384 | -0.4143      | 0.01008      | -1.943       | -0.6865     | -1.111      | -1.111       | 0.2055       | 0.07488  | -0.1109  | 0.1505     |
| 385 | -0.4475      | -0.1231      | 0.01344      | -3.91E-05   | -0.8243     | 0.2857       | 0.592        | -0.4987  | 0.3555   | 0.157      |
| 386 | -0.46        | 0.4944       | 0.5902       | 0.09676     | -0.8775     | 0.4125       | 0.7488       | -0.5319  | 0.7323   | 0.1238     |
| 387 | 0.2888       | 0.4931       |              | 0.1743      | -0.65       | 0.59         | 0.2463       | 0.9656   | 0.009805 |            |
| 388 | 0.23         | 0.5344       | 0.2565       | -0.09699    | 0.1087      | -0.3113      | -1.045       | 0.01438  | 0.1486   | 0          |
| 389 | 0.2762       | 0.2705       | -0.9123      | -0.2657     | 0.34        | 0.84         | -0.3937      | 0.3356   | -0.3202  | -0.4888    |
| 390 | -0.2543      | 0.3501       | -0.4461      | -0.3296     | -0.7338     | -0.6838      |              | 0.5518   | 0.246    | -0.01258   |
| 391 |              | 0.4075       | -0.8366      | -3.91E-05   | -0.5643     | 0.0857       | -0.02801     | 0.5413   | -0.4245  | -0.373     |
| 392 | 0.2572       | 0.5216       | -0.6591      | -0.6926     | -0.8769     | -0.4569      | 0.1994       | 0.07875  | -0.2671  | -0.07563   |
| 393 | -0.05164     | 0.2327       | -1.165       | -0.3386     | -0.06281    | 0.4472       | 0.2735       | 0.1228   | 0.637    | 0.4884     |
| 394 | -0.2928      | 0.1416       | -1.134       | 0.4326      | -0.7316     | -0.01164     | 0.8146       | -0.586   | -0.5218  | -0.6904    |
| 395 | -0.5811      | -0.7767      | -0.7651      | -0.1786     | -0.05281    | -0.4228      | -0.1765      | 0.4628   | 0.307    | 0.1484     |
| 396 | -0.4536      | 0.3308       | -1.603       | 0.1032      | -0.7511     | -0.2511      | -1.185       | 0.8745   | 0.6487   | 0.2002     |
|     |              |              | -0.8459      | -1.009      | -0.8136     | 0.02641      | -0.4473      |          | 0.3862   | -0.04234   |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 397 | 0.1567                  | 0.6211                  | -0.1255                 | -0.639                 | 0.1467                 | -0.09328               | -0.637                 | 1.032            | -0.5735          | -0.332           |
| 398 |                         | 0.004375                |                         | 0.8743                 | 0.79                   | 0.3                    | 0.1263                 | 0.2056           | 0.8298           | 0.4113           |
| 399 | 0.1522                  | 0.9766                  | -7.81E-05               | 0.6964                 | 0.1822                 | 1.172                  | 1.088                  | 0.7278           | 0.382            | 0.4634           |
| 400 | 0.75                    | -0.8056                 |                         |                        | -0.01                  | 0.9                    | 0.4363                 | 0.2756           | 0.0798           | 0.4312           |
| 401 | 0.01                    | 0.3944                  |                         | -0.6857                | -0.09                  |                        | 1.126                  | 0.4156           | -0.4602          | -0.2888          |
| 402 | -0.6637                 | 0.1806                  |                         | -1.789                 | -0.5137                |                        | -0.01746               | 0.1519           | -0.1339          | 0.0975           |
| 403 | -0.22                   | -0.3056                 |                         | 0.4143                 | -0.27                  | -0.49                  |                        | 0.4456           | 0.0398           | 0.3512           |
| 404 | 0.0875                  | 0.2919                  | 0.1152                  | 1.132                  |                        | -0.1125                | -0.1262                | -0.4269          | 0.3173           | -0.3112          |
| 405 | 0.0025                  | 0.2969                  | -0.3498                 | -3.413                 | -0.7375                |                        |                        |                  | 0.1423           | -0.4762          |
| 406 | -0.532                  | 0.6124                  | 0.2558                  | -1.028                 | -1.762                 | 1.078                  | 0.7443                 | 1.224            | 0.8378           | 1.029            |
| 407 | -0.04                   | -0.1956                 | -0.4123                 | -0.3157                | -1.35                  |                        | 0.2963                 | 0.04563          | 1.01             | 0.5212           |
| 408 | -0.03391                | -1.62                   |                         | 1.05                   | -0.4139                | 3.276                  | 2.282                  | 1.272            | 1.316            | 1.067            |
| 409 | -0.07                   | 0.07438                 | -0.01227                | -0.1157                | -0.15                  | -0.23                  | -0.2237                |                  | 0.2398           | -0.04875         |
| 410 | -0.08875                | 0.1856                  | -0.371                  | 0.6455                 | 0.2512                 | -0.7188                | -0.4925                | 0.4069           |                  | 0.6525           |
| 411 | -0.58                   | -1.596                  |                         | -1.046                 | 1.13                   | 1.88                   | 3.626                  | 3.916            | 2.39             | 1.911            |
| 412 | -0.06719                | -0.2728                 | 0.2805                  | 0.4371                 | 0.2728                 | 0.01281                | -0.5609                | 0.3184           | 0.4026           | 0.06406          |
| 413 | -0.1787                 | -0.3143                 | -0.511                  | -0.3145                | -0.4787                | 1.141                  | 1.518                  | 0.1969           | 0.2811           | 0.1425           |
| 414 | 0.3905                  | -0.8351                 |                         | 0.2148                 |                        | -0.5795                | -0.0132                |                  | 0.4803           | 0.4418           |
| 415 | 0                       | 0.5144                  | -1.582                  | 1.554                  | -0.82                  | 4.32                   | 3.726                  | 0.05563          | 0.9398           | 1.391            |
| 416 | -0.2766                 | 1.578                   | -0.1389                 | -0.002344              | 0.1734                 |                        | 0.3197                 | -0.421           | 0.9632           | 0.6046           |
| 417 | -0.5339                 | -0.7195                 | -0.2861                 | -0.2796                | -1.014                 | -0.01387               | -0.2376                | 0.3318           | 0.9659           | 0.5374           |
| 418 | 0.05                    | -0.4156                 |                         | -0.3657                | 0.27                   | 0.28                   | -0.1937                | 0.2756           | 1.17             | 0.6513           |
| 419 | -0.1138                 | -0.6794                 | 0.324                   |                        | 0.2462                 |                        | -0.02746               | 0.05187          | -0.4439          | 0.5275           |
| 420 | -0.7                    | -1.336                  | 1.218                   | 0.1143                 | -0.11                  | 0.5                    | 0.9763                 | 0.2256           | 1.74             | -1.269           |
| 421 | 0.59                    | 0.7744                  | 0.5377                  | 1.384                  | 0.42                   | -0.92                  | -0.6637                | 0.3156           | 0.7998           | 0.2613           |
| 422 | 0.3188                  | -0.4569                 |                         |                        |                        | -0.5413                | -0.365                 | -2.646           | 0.5886           | 0                |
| 423 | 0.21                    | -0.3656                 |                         | 0.1543                 | 0.85                   | -0.95                  |                        |                  | 2.71             | 2.881            |
| 424 | 0.22                    | -0.3556                 | -0.4723                 | 0.1843                 | -0.44                  | 0.33                   | 0.4763                 | 1.316            | 1.12             | 0.7413           |
| 425 | -0.6                    | -1.486                  | -1.442                  | 0.2643                 | 0                      | -0.32                  | -0.4337                | 1.016            | 1.35             | 0.7113           |
| 426 | 0.9573                  | -0.4684                 | 1.985                   |                        | -0.6627                | -0.2027                | -0.01645               | 0.9529           | -0.3129          | 1.829            |
| 427 | 0.1388                  | -0.3769                 |                         | 1.923                  | -0.2613                | 0.7687                 | -0.455                 | 1.824            | 1.699            | 1.83             |
| 428 | -0.01125                | -0.09688                | 1.346                   | 1.483                  | -0.5413                | 1.009                  | 0.675                  | 2.664            | 2.639            | 3.27             |
| 429 | -0.335                  | -0.4106                 | 1.233                   | 1.229                  | -0.625                 |                        | 0.3213                 | 2.381            | 2.115            | 2.926            |
| 430 | 0.5125                  | -1.973                  | 0.2702                  | 1.137                  | -1.158                 | 0.6725                 | 0.6588                 | 1.448            | 1.282            | 2.164            |
| 431 | 0.1906                  | -0.495                  |                         | 0.8449                 | -0.7194                | 0.7306                 | -0.3131                | 2.426            | 1.21             | 1.862            |
| 432 | 0.225                   | -1.801                  | 0.6327                  | 0.8293                 | -0.875                 | 0.895                  |                        | 2.431            | 1.275            | 1.536            |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 433 | 1.217                   | -0.1181                 | 0.9852                  | 2.802                  | 0.3775                 | 0.5875                 | 1.584                  | 2.453            | 2.197            | 2.819            |
| 434 | 0.4016                  | 0.676                   | 0.4594                  | -0.0541                | -0.3584                | -0.02836               | 0.3979                 | 0.7273           | -0.3386          | 1.463            |
| 435 | 0.1856                  | -2.10E-11               | -1.077                  | 0.1899                 | -1.504                 | 0.2456                 | 0.001914               | 0.3713           | 1.285            | 0.7769           |
| 436 | 0.1959                  | -0.1497                 | -0.3163                 | 0.7802                 | -0.3541                | -0.5041                |                        | 0.5216           | 1.496            | 1.257            |
| 437 | -0.18                   | -0.4956                 | -1.042                  | 0.08426                | -1.24                  | -0.21                  |                        | 0.1456           | 1.48             | 0.9412           |
| 438 | -0.6421                 | -0.8478                 | -0.6244                 | 0.01211                | -0.3921                |                        | -0.03586               | 1.193            | 1.998            | 1.889            |
| 439 | 0.1123                  | -1.163                  | 0.79                    | 1.257                  | -0.7477                |                        | -0.01145               | 1.298            | 2.642            | 1.614            |
| 440 | 0                       | 0.1844                  |                         | -0.4157                | 0.6                    | 1.5                    | 0.6463                 | 0.7156           |                  |                  |
| 441 | 0.69                    | 0.1944                  |                         | -0.4157                |                        |                        | -0.5037                | 1.096            | 0.0698           | -0.1288          |
| 442 | 1.165                   | -0.6506                 | -0.5473                 |                        | -0.005                 | 0.685                  | 1.581                  | 1.571            | 1.375            | 2.726            |
| 443 | 0.9345                  | -0.06109                | 0.6423                  | 0.7488                 | 0.6145                 |                        | 0.0008203              | 0.4302           |                  | 2.016            |
| 444 | -0.19                   | 0.3044                  | 0.2877                  | 0.3743                 | 0.21                   | -0.11                  | 0.4063                 | 0.9556           | 0.009805         | 0.00125          |
| 445 | 0.405                   | 0.3194                  | -0.3073                 | 0.1393                 | 0.115                  | 0.195                  | 0.01129                | 1.391            | 1.435            | 0.8762           |
| 446 | 0.1648                  | -0.6508                 | 0.3925                  | 0.9391                 |                        | -1.135                 | 0.7411                 | 0.6204           | 0.2046           | 1.286            |
| 447 | 0.0525                  | 0.5269                  |                         | -0.1132                | -1.018                 | -1.108                 | -0.2912                | -0.02187         | -0.1277          | 0.6338           |
| 448 | -0.1816                 | -0.6273                 | -0.09391                | -0.2974                | -0.7116                | -0.4416                | -0.2754                | -0.336           | 1.078            | 0.6696           |
| 449 | -0.6307                 | 0.3837                  | -0.103                  | -0.4764                | -0.1907                | -0.3407                | -0.07441               | 0.3249           | -0.0008984       | -0.07945         |
| 450 | -1.197                  | -0.5125                 |                         | 0.3874                 | 3.223                  |                        | 1.079                  |                  | 1.443            | 3.574            |
| 451 | -0.7825                 | -0.3081                 | -1.275                  | 0.1118                 | 0.7475                 | 1.387                  | 1.554                  |                  | -0.2027          | -0.2212          |
| 452 | 0.2657                  | -0.3299                 |                         | -3.91E-05              | 0.0957                 |                        |                        |                  | 0.7555           | 0.267            |
| 453 | 1.97                    | 4.374                   | 0.7277                  | 1.784                  | 1.83                   | 0                      | 2.116                  | -0.7244          | -0.0102          | -0.3787          |
| 454 | -0.0752                 | -0.3208                 | -0.1275                 | -1.511                 | 0.2548                 | 0.1848                 | 0.001094               | 0.2046           | 0.2046           | 0.4061           |
| 455 | -1.701                  | 2.723                   |                         | 0.09301                | -0.5513                | 1.139                  | 0.905                  | 1.174            | 0.3586           | 1.71             |
| 456 | 0.118                   | 0.1823                  | 0.9457                  | -0.06777               |                        |                        |                        | 1.754            | -0.5922          | -0.1708          |
| 457 | -0.3569                 | 0.3875                  | -0.2891                 | -0.05262               | 0.4931                 | -0.2069                |                        | 0.2188           | -0.4471          | -0.5956          |
| 458 | 0.535                   | -0.5206                 |                         | 0.06926                | 1.435                  | -0.645                 | -0.1587                |                  | 0.5848           | 0.3962           |
| 459 | -0.38                   | 0.4044                  | -0.6923                 | 0.2143                 | 0.84                   | 0.66                   | 1.856                  | 1.506            | 2.53             | 2.311            |
| 460 | 0.9036                  | 1.558                   | 0.2813                  | 1.228                  | -0.5664                | -0.3664                | 0.6099                 | 0.3592           | 0.7034           | 1.875            |
| 461 | -0.45                   | -0.8956                 | -1.292                  | -0.6157                | -1.2                   | 0.88                   | 0.9063                 | 1.816            | 1.43             | 1.151            |
| 462 | 1.105                   | 0.7994                  | -0.9373                 |                        | -0.285                 | -0.015                 | 0.2913                 | 1.281            | -0.2952          | -0.5937          |
| 463 | 0.06219                 | -0.1534                 | -0.6501                 | -0.1636                | 0.2022                 | -0.1478                | 0.6185                 | -0.8722          | 0.342            | 0.4534           |
| 464 | 0                       | 0.4444                  | -0.5623                 | 0.8943                 | -0.07                  | -0.43                  | -0.6437                | -0.8244          | -0.1102          | 0.1012           |
| 465 | -0.4646                 | -0.08023                | -0.1169                 | 0.4196                 | -0.06461               | -0.2646                | -0.2283                |                  | 0.5252           |                  |
| 466 | 0.09391                 | -0.1017                 |                         | -0.04184               | 0.5139                 | -0.04609               | -3.23                  | 1.75             | 2.014            | 2.135            |
| 467 | -0.2                    | 0.2244                  | -0.1123                 | -0.1457                | -0.15                  | -0.49                  | 0.1463                 | 0.2256           | 0.7598           | 0.8913           |
| 468 | -0.5915                 | 0.7929                  |                         | -0.5672                |                        |                        | 0.1148                 |                  | -0.02168         |                  |



Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 469 | -0.075                  | 1.239                   |                         | 0.03926                | 0.015                  | 0.455                  |                        | 0.7806           | 0.8448           | 0.4862           |
| 470 | 1.081                   | 0.6756                  |                         | -0.3245                | -0.9088                |                        | 0.1375                 | 0.8369           | 0.2211           | -0.0075          |
| 471 |                         | 0.2805                  | -2.196                  | -0.5496                | -0.03387               | -0.4639                | 1.032                  | 0.1618           | -0.2941          | 0.2874           |
| 472 | -0.47                   | -0.8856                 | -0.3623                 | -0.6757                | -0.26                  | 0.61                   | 1.596                  | -0.1044          | 1.08             | 0.4712           |
| 473 | 0.3                     | -0.4656                 | 0.3977                  | 0.6943                 | 0.73                   | -0.06                  | 0.7063                 | 0.1956           | 1.06             | 0.8312           |
| 474 | 0.09555                 | 0.4299                  |                         | 0.3898                 | -0.1045                | -0.7345                | 0.09184                | -0.7088          | 0.5754           | 0.4768           |
| 475 | -0.1198                 | 0.6846                  | 0.268                   | 0.4945                 | -0.03977               | 0.8002                 | 0.2365                 | 1.736            | 0.84             | 1.311            |
| 476 | -0.7987                 | -0.09437                | -1.051                  | -0.7445                | -0.4488                | -1.029                 | 0.5375                 | 0.8369           | 1.041            | 1.393            |
| 477 | 0.7748                  | 0.2092                  |                         | -0.7909                | -1.415                 | -0.1752                | -0.1489                |                  | 0.3446           | -0.2739          |
| 478 | -0.3348                 | -0.9605                 | -0.6671                 | -0.2906                | -0.2948                |                        | 0.01145                | -0.03922         | 0.375            | 0.1064           |
| 479 | 1.138                   | 1.282                   | -0.2745                 | -0.04793               | -0.8022                |                        | 0.2641                 |                  | 0.4276           | 0.05906          |
| 480 | -0.5864                 | -0.362                  | -0.09867                | 0.4079                 | -0.5764                | 0.3736                 |                        | -1.141           | -0.7066          |                  |
| 481 | -1.241                  | -1.346                  | 0.677                   | -0.5564                | -0.7407                |                        | -0.5544                | 0.1549           | -0.008984        | -0.1195          |
| 482 | -0.37                   | 0.6444                  | -0.4123                 | 0.3443                 | -0.04                  | 0.36                   | 0.006289               | -0.5144          | -0.4002          | -0.3787          |
| 483 | 0.1241                  | 0.3184                  | -0.4882                 | 0.5983                 | 0.2241                 | 0.3741                 | 0.3304                 | -0.4503          | -0.3261          | -0.2547          |
| 484 | 0.13                    | 0.4444                  | -0.5923                 |                        | 0.24                   |                        | -0.1437                | 0.4156           | -0.6102          | 0.00125          |
| 485 | 0.48                    | 1.714                   | -0.2623                 | -0.7057                | -1.05                  | -0.11                  | -1.124                 | -0.2144          | -0.0902          | -0.3387          |
| 486 | -0.392                  | -0.08766                | -0.3643                 | -0.3078                | -0.262                 | 0.07797                | 0.4543                 | 0.5836           | 0.4578           | 0.4592           |
| 487 | -0.02414                | 1.13                    | -0.3264                 | -0.06988               | 0.5259                 | -0.8841                | -1.028                 | 0.6715           | 0.6257           | 0.6371           |
| 488 | 0.4487                  | 0.5031                  | 0.3665                  | -0.577                 | 0.2987                 | -1.351                 | -0.365                 | 0.8344           | -0.4414          | -0.34            |
| 489 | 0.6258                  | 1.25                    | 0.1735                  | -0.56                  | 0.3058                 |                        | -0.9179                | 0.4914           | -0.2944          | -0.263           |
| 490 | 0.34                    | 0.3544                  | 0.04773                 | -0.005742              | 0                      | -0.43                  | -0.3137                | -0.3044          | 0.0998           |                  |
| 491 | -0.4161                 | -1.312                  | 0.9216                  | -0.4718                | 1.164                  | 0.7239                 | -0.3498                | -0.07047         | -1.026           | 1.405            |
| 492 | -0.8694                 | -1.025                  | 0.8584                  | 0.9649                 | 1.751                  | -0.2294                | 0.1769                 | -0.8737          | -0.9696          | -0.9781          |
| 493 | 0.2489                  | 0.7633                  | 0.2567                  | 1.993                  | -0.3311                | -0.1111                | 0.07523                | -0.9054          | -0.1113          | -0.0498          |
| 494 | 0.04719                 | 0.3816                  | 0.9149                  | 0.1114                 | 0.4472                 | -0.3928                | -0.3665                | 0.1128           | 0.09699          | 0.4084           |
| 495 | 0.5251                  | -0.04051                |                         | -0.1406                | -0.4649                |                        | -0.4886                |                  | 0.3749           | 0.9664           |
| 496 | 0.1778                  | -0.3178                 | -2.784                  | 0.07207                | 0.1778                 | -0.3822                | 0.6941                 | 0.3134           | 0.5876           | 0.3291           |
| 497 | -0.19                   | -0.4756                 | -1.102                  | -0.7757                | 0.62                   | 0.39                   | 0.9363                 | 1.736            | 1.25             | 0.7313           |
| 498 | 0.6286                  | 1.123                   | -1.224                  | 0.01285                | 0.9586                 | -0.9814                | -1.185                 | 1.384            | 0.3484           | 0.4598           |
| 499 | -0.34                   | 0.2244                  | -7.502                  | 0.4743                 | -0.63                  | -0.64                  | -0.9437                | -0.1344          | 0.4898           | 0.3312           |
| 500 | 0.7163                  | 0.3106                  | -2.636                  | 0.8905                 | 0.2463                 | -0.1938                | 0.07254                | 1.012            | 1.506            | 1.118            |
| 501 | 0.8731                  | 0.6575                  | -0.7191                 | 0.5774                 | -0.4169                | 1.973                  | 2.449                  | 0.9888           | 1.413            | -1.886           |
| 502 | -0.29                   | -0.2156                 | 0.2877                  | 0.1643                 |                        | 0.28                   | -0.003711              | 1.316            | 2.27             | 1.491            |
| 503 | -0.255                  | -0.5906                 | 0.4427                  | -0.1307                | -0.485                 |                        | 1.161                  | 0.5506           | 1.735            | 1.556            |
| 504 | 0.0848                  | 0.4992                  | -0.6475                 | 0.4691                 | 0.5148                 | -0.7552                | -0.2689                | 1.13             | 1.275            | 0.9861           |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 505 | -0.45                   | -0.4956                 | 0.6877                  | 0.2243                 | 0.38                   | -0.135                 | -0.1437                |                  | 0.4098           | 1.311            |
| 506 | -0.145                  | -0.7206                 | 0.04273                 | 0.3393                 | 0.825                  | -0.135                 | -0.5887                | 2.871            | 2.185            | 1.986            |
| 507 | -0.4089                 | -0.1445                 | -1.881                  | -0.8646                | -0.3389                | -1.489                 | -0.9426                | -0.2133          | -1.359           |                  |
| 508 | 0.12                    | 0.2644                  |                         | -0.3557                | -0.41                  |                        |                        | 0.5056           | -0.6602          | -0.9788          |
| 509 | 0.05                    | 0.1444                  | -0.6323                 | 1.224                  | 0.27                   |                        | -0.7137                | -0.7944          | -0.0402          | -0.6687          |
| 510 |                         | -0.1856                 |                         |                        | -0.02                  | -0.19                  | 0.2163                 |                  | -0.4402          | -1.159           |
| 511 | 0.18                    | -0.2556                 |                         | -0.4557                |                        | -0.23                  |                        |                  | -0.4002          |                  |
| 512 | -0.085                  | 0.7094                  | -0.1273                 | 0.07926                | -0.395                 | 0.395                  | -0.2087                | 0.1606           | 0.0948           | 0.2063           |
| 513 | -0.06172                | 0.5527                  | 0.166                   | -0.3775                | -0.3817                | 0.1583                 | -0.5854                | -0.1961          | 0.6381           | 0.2895           |
| 514 | -0.505                  | -0.7206                 | -0.7173                 | -1.011                 | 0.145                  | -0.525                 | -0.4587                | 1.041            | -0.6452          | 0.1662           |
| 515 | -0.3344                 | -4.66E-12               | -1.477                  | -0.6001                | 0.7156                 | -0.6644                | 0.07191                | 1.021            | 0.7354           | 0.09687          |
| 516 | -0.4222                 | -0.8378                 | -0.6145                 | -0.7879                | -0.4522                | -0.7822                | -0.0359                | 0.4334           | 1.968            | 1.639            |
| 517 | -0.2227                 | -0.1983                 |                         | -0.6484                | -0.06266               |                        | 0.2436                 | 0.553            | -0.05285         | 0.6486           |
| 518 | 0.4756                  | -1.40E-11               | -2.737                  | -1.03                  | -1.154                 | -4.344                 | -0.9081                |                  | -0.2446          | -0.1431          |
| 519 | 0.8972                  | 0.6416                  | 0.7149                  | -0.2486                | 0.3572                 | -0.4228                | 0.2035                 | -0.5472          | -0.753           | 0.008437         |
| 520 | 1.28                    | 0.3244                  | 0.6077                  | -0.4057                | 0.76                   | -0.99                  | -0.7537                | 2.186            | 0.7398           | 0.7912           |
| 521 | 0.06453                 | -0.1111                 | -0.3877                 | -0.5812                | -0.3155                | -0.4155                | 0.0008203              | 0.8302           | 0.9143           | 0.9858           |
| 522 | -0.467                  | -0.9027                 | 1.031                   | -0.05277               | -0.487                 | 0.833                  | 1.329                  | 0.6286           | 0.1828           | 0.4242           |
| 523 | 0.5511                  | -0.2845                 | 2.189                   | 0.6354                 | -0.5689                | 1.321                  | 1.867                  | 0.04676          | 0.3709           | 0.3224           |
| 524 | -0.005                  | -0.2706                 | -0.08727                | 0.3693                 | 0.115                  |                        |                        | 1.081            | -1.135           | 0.5262           |
| 525 | -0.04                   | -0.5756                 | 1.198                   | 0.3143                 | 0.76                   | 0.47                   | 0.006289               |                  | 0.1898           | 1.241            |
| 526 | -0.3944                 | -0.15                   | -0.2166                 |                        | 0.5456                 | 0.7656                 | 0.4219                 | -0.2987          | 1.095            | 0.2269           |
| 527 | -0.8636                 | 0.4308                  |                         | -0.4393                | -1.554                 | 0.7964                 | 0.0227                 | 0.732            | 0.3762           | -0.2223          |
| 528 | -0.6338                 | 0.09063                 | -0.496                  | -0.02949               | 0.1762                 | 0.6362                 | 1.483                  | 0.7719           | 1.036            |                  |
| 529 | 0.05                    | -0.5656                 | -1.002                  | 0.02426                | -0.29                  | -0.61                  | -0.6137                | -0.4544          | 0.5698           | 0.1612           |
| 530 | -0.5134                 | 0.4209                  |                         | -0.7192                | 0.4466                 | 2.337                  | -0.7571                | 0.002187         | -0.6336          | -0.5322          |
| 531 | 0.1778                  | 0.002188                |                         | 0.3421                 | -0.5522                | 0.5678                 | 0.5141                 | 0.1934           | 0.1076           | -2.211           |
| 532 | -0.22                   | -0.1356                 |                         | 1.674                  | 0.23                   | -0.21                  | -0.3937                | 0.8456           | 0.3898           | 0.3612           |
| 533 | -0.3641                 | 0.2702                  | -0.6364                 | 1.74                   | -1.034                 |                        | -0.7279                | -1.269           | 0.2357           | -2.693           |
| 534 |                         | -0.9545                 | -0.06117                | 0.4154                 | -0.3089                | -0.5489                | 0.09738                | -1.343           | -0.7291          |                  |
| 535 | 0.06406                 | -0.001563               |                         | -1.052                 | -0.1559                |                        | -1.02                  |                  | -0.09613         |                  |
| 536 | -0.5876                 | 0.3168                  |                         | -1.453                 | -0.7976                | -0.4776                | -1.871                 |                  | -3.128           |                  |
| 537 | 1.093                   | 1.357                   | 1.701                   | -0.8226                |                        | 0.7131                 | -1.381                 | -1.811           | -1.217           | 0.6844           |
| 538 | 1.251                   | 1.976                   | -0.9009                 | -1.214                 | -0.5087                | 1.901                  | 2.828                  | -0.913           | -2.439           | -1.027           |
| 539 | 0.5141                  | -0.6615                 |                         | -0.4216                |                        |                        | 0.9604                 | -2.29            | -0.08605         | 0.3154           |
| 540 | -0.4017                 | -2.677                  | -1.614                  | 0.2025                 | -1.482                 | -0.4717                | -0.9454                | -0.2661          | 0.07809          | -1.46            |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | -1                      | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 541 | -0.46                   | 0.5244                  | -1.032                  | -0.9057                | 0.42                   | -0.02                  | 2.106                  | 0.3656           | 0.0298           | -0.6287          |
| 542 | 0.1094                  | 1.414                   | -0.1229                 | -0.2564                | -0.5206                | 0.8794                 | 1.756                  | 1.335            | 0.05918          | 0.04063          |
| 543 | 0.4                     |                         | -1.242                  |                        | -0.62                  |                        | 1.616                  |                  | 0.5698           | 0.6512           |
| 544 | -1.073                  | -0.8184                 | -1.085                  | -3.019                 | -1.503                 | 2.987                  | 2.563                  | 1.783            | 1.657            | 1.168            |
| 545 | -0.68                   | -0.6956                 | -1.692                  | -3.306                 | -0.26                  | 1.73                   | 2.506                  | 2.636            | 1.64             | 1.151            |
| 546 | 0.19                    | -0.1856                 | -0.4723                 | 0.9243                 | -0.64                  | 0.75                   | -0.5037                | 0.6756           | -0.4702          | -0.5288          |
| 547 | 0.7672                  | -0.5984                 |                         | -1.139                 | 0.08719                | 2.057                  | 2.013                  | -0.007187        |                  | -0.9516          |
| 548 | -1.02                   | -1.665                  | -0.1221                 | -0.4655                | -0.5198                | 1.01                   | 0.5565                 | -1.564           | -0.72            | -0.8785          |
| 549 | 0.8478                  | 1.332                   | 1.706                   | 1.242                  | -0.4722                | -0.7922                | -1.676                 | 1.223            | 0.6876           | 0.6291           |
| 550 | 0.01                    | -0.9556                 | -0.6623                 | 0.5343                 | 0.31                   | 0.11                   | -1.014                 | -0.7644          | 0.9398           | 0.5212           |
| 551 | 1.355                   | 0.5994                  |                         | 0.1093                 | -0.795                 | -0.215                 | 0.4413                 | 0.4406           | 0.7248           | 1.266            |
| 552 | 0.2372                  | 1.282                   | -0.6251                 | 0.9614                 | 1.267                  |                        | -1.497                 | -0.7172          | 1.467            | 0.5384           |
| 553 | 0.14                    | -0.1056                 | -1.072                  |                        | -0.2                   | 0.27                   | 0.09629                | 0.1856           | 0.8798           | 0.06125          |
| 554 | -0.3489                 | -0.8245                 |                         | 0.2454                 | 0.3111                 | 0.3011                 | -0.1126                |                  | 0.1209           | -0.6377          |
| 555 | 0.47                    | 0.7544                  | -0.5523                 | -0.9757                | -0.5                   | -0.26                  | -0.4037                | 0.1856           | -0.3202          |                  |
| 556 | 0.805                   | 0.7394                  | -0.4373                 | -0.9607                | 0.025                  | 0.185                  | 0.08129                |                  | -1.155           | -0.8938          |
| 557 | 0.755                   | 1.149                   | -0.3473                 | -1.101                 | -0.985                 | -0.355                 | -0.6987                | 0.8506           | 1.305            | 0.8662           |
| 558 | -1.37                   | -0.3856                 | 1.008                   | 0.4043                 |                        | 0.69                   | -0.3737                | 1.266            | 1.16             | -0.07875         |
| 559 | -0.1979                 | -1.113                  |                         | -0.4736                | 0.4421                 |                        | -0.2716                | 0.8578           | 0.03195          | -0.3266          |
| 560 | -0.5994                 | -0.055                  |                         |                        | -0.04937               | -0.2694                | 0.3369                 | 1.036            | -0.5596          | -0.1081          |
| 561 | -0.53                   | -0.1556                 | -1.932                  |                        | 0.38                   | 2.4                    | -0.3137                | 1.476            | -1.4             | 2.781            |
| 562 | -0.27                   | 0.03437                 |                         | -1.686                 | -0.71                  |                        |                        | 1.816            | -1.16            | -0.3188          |
| 563 | 0.5903                  | 0.2047                  |                         | -0.6754                | 0.2703                 |                        | 0.2466                 | -0.6341          | -0.1599          | -0.5584          |
| 564 | 0.8723                  | 0.5366                  |                         | -0.4935                | 0.2823                 | -1.488                 |                        | 0.04789          | 0.02207          | -0.4565          |
| 565 | 0.08937                 | -0.1063                 |                         | -0.7964                | 2.859                  |                        | -0.6743                |                  | -0.08082         | -0.7594          |
| 566 | -0.2889                 | -0.3445                 | -0.3412                 | -0.5546                |                        |                        | 0.8774                 | 2.437            | 0.6509           | 0.1623           |
| 567 | -0.3713                 | 0.02312                 | -1.074                  |                        | -0.2513                | 1.379                  | 0.735                  | 2.274            | 0.1086           | 0.37             |
| 568 | 0.1472                  | -0.1384                 | -2.615                  |                        | -0.02281               | -0.5028                | 0.6735                 | 0.6028           | -0.133           | -0.4716          |
| 569 | -0.2184                 | 0.9359                  |                         | -0.9042                | -0.9684                |                        | 0.7179                 |                  | -0.4686          | -0.6472          |
| 570 | -0.1469                 | -0.0025                 |                         | -0.9426                | 1.603                  |                        | 0.1994                 | 0.9488           | -0.8571          | 0.004375         |
| 571 | 0.8103                  | -0.4053                 |                         | -0.3254                | -0.7097                |                        | -0.0534                | 1.166            | -0.4999          | -0.08844         |
| 572 | 0.5561                  | -0.2695                 |                         | -0.6296                | -0.02391               | 0.08609                | -0.3176                | 1.302            | 0.1559           | -0.4327          |
| 573 | 0.5834                  | 0.04777                 |                         | 0.01766                | 0.1134                 |                        | -0.08031               | 0.499            | -0.8468          | -0.2854          |
| 574 |                         | 0.8723                  |                         | -0.9078                | 0.8579                 |                        | 0.2342                 | -0.1164          | -0.7923          | 1.299            |
| 575 | -0.3138                 | -0.6494                 |                         | -0.6795                | 0.2262                 | -3.134                 | -0.3175                | 1.432            | -1.404           | -0.6425          |
| 576 | 0.7708                  | -0.1449                 |                         | -0.465                 | -0.6392                | -0.7292                | 0.3871                 | 0.9664           | -0.6194          | -0.698           |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 577 | 0.57                    | 0.6844                  | -3.802                  | -0.3757                | -0.4                   |                        | 0.1363                 | 1.076            | -1.32            | -0.7187          |
| 578 | 0.537                   |                         |                         | -0.1488                |                        |                        | -0.02676               | 0.1326           | -0.2132          | -0.5318          |
| 579 | -0.2339                 | 0.3005                  |                         | 0.2904                 |                        | 2.136                  | 0.7124                 | 0.9717           | -0.1741          | 0.4773           |
| 580 | 0.37                    | 0.1844                  | -3.132                  |                        | 0.11                   |                        | 1.426                  | 0.8156           | -0.5302          | 0.1913           |
| 581 | 0.7072                  | -0.08844                |                         | -0.5386                | 0.3972                 | 1.927                  | 0.5835                 | -0.1572          | 0.137            | -0.08156         |
| 582 | 1.966                   | 0.53                    |                         | -0.3001                | 0.2156                 |                        | -0.008086              | -0.01875         | -0.3646          | -0.6831          |
| 583 | 0.78                    | -0.05563                | -1.812                  | -0.5857                | -0.65                  | 0.16                   | 0.5963                 | 1.466            | 0.6198           | 0.4512           |
| 584 | 2.97                    | 0.1144                  | -1.142                  | -0.4957                | 0.02                   | -0.91                  | -0.2037                | 0.7056           |                  | 3.001            |
| 585 | 0.7706                  | 0.255                   | -1.912                  | 0.3549                 | 0.2006                 |                        | -1.163                 |                  | -0.2296          | 1.722            |
| 586 | -0.3169                 | -0.1325                 |                         | -0.7426                | -0.6869                | 0.8031                 | 0.4994                 | 0.1788           | -0.5671          | -0.03563         |
| 587 |                         | -0.3156                 |                         | -1.996                 | 0.26                   | 0.81                   |                        | 0.1656           | -0.3902          | 0.6513           |
| 588 | 0.02813                 | 0.4525                  |                         | -0.6876                | -0.02188               |                        | 0.4744                 | 0.1838           | -0.6821          | 0.02938          |
| 589 | 0.7132                  | -0.3624                 |                         | 2.937                  | -1.097                 | 1.353                  | 0.5295                 | 0.1289           | -0.03695         | 2.944            |
| 590 | 0.1956                  | 1.49E-08                |                         | 0.3599                 | -0.6844                | 0.9756                 | 1.032                  |                  | 0.2054           |                  |
| 591 | 0.08578                 | 0.3202                  | -2.196                  | -0.45                  | -0.2542                | 3.666                  | 5.062                  | -0.8286          | -0.01441         |                  |
| 592 | 0.6251                  |                         | -0.7072                 | -0.5207                | -0.2449                | 1.135                  |                        | -0.9093          | 1.255            | 1.336            |
| 593 | 0.9148                  | 1.919                   | 1.763                   | 1.029                  | -1.575                 | 1.975                  | 2.261                  | -0.2296          | 0.7146           | 1.986            |
| 594 | 0.8402                  | -0.3254                 | 1.858                   | 0.6845                 | 0.9202                 | -0.5598                | -0.8235                |                  | -0.6             |                  |
| 595 | 0.4694                  | 1.094                   |                         | 0.6336                 | -0.9706                |                        | -0.4243                | 0.675            | -1.331           | -1.129           |
| 596 | 0.2113                  | -0.4544                 |                         |                        | -0.1388                | 1.801                  | -0.3125                | 1.607            | 0.9811           | 0.3225           |
| 597 | 0.01                    | -0.4256                 | -0.4223                 | -0.5557                | -0.26                  | -0.55                  | 0.6663                 | 1.556            | -0.7402          |                  |
| 598 | -0.725                  | -0.05062                | 0.1427                  | 0.5293                 | 0.345                  | 0.675                  | -0.1887                | -0.08937         | 0.5548           | 0.8463           |
| 599 | 1.22                    | -0.6056                 | -0.5023                 | -0.8357                | 1.46                   | -0.63                  | 0.2863                 | -0.1144          | -0.5202          | -0.3288          |
| 600 | -0.38                   | 0.3544                  | -0.5723                 | -0.1657                | -0.07                  | -2.48                  | -0.1437                | 0.06563          | -0.1302          | -0.2288          |
| 601 | -0.07773                | 0.1866                  | -0.3                    | -0.5635                | -0.4277                | 0.3423                 | -0.4414                | 0.8479           | 1.322            | 1.174            |
| 602 | 0.2555                  | 0.2999                  | 0.06328                 | 0.2498                 | 0.005547               | 0.8455                 | 0.5318                 | 0.2412           | 1.025            | 0.0868           |
| 603 | 0.065                   | 0.2394                  | -1.337                  | 0.5893                 | 2.175                  | -0.445                 | -0.2487                | 1.481            | 0.2448           |                  |
| 604 | 0.57                    | 0.1744                  | 0.7777                  | -0.05574               | 0.42                   | 0.78                   | 0.2063                 | 0.4656           | 1.02             | -0.1487          |
| 605 | -0.54                   | 0.8544                  | 2.268                   | -0.09574               | 0.29                   | 1.3                    | -0.4537                | -1.854           | -1.37            | -0.4788          |
| 606 | 0.3058                  | 0.7502                  |                         | 0.07008                | 1.086                  | 1.486                  | -0.7779                | -1.579           | -1.794           | -0.2029          |
| 607 | -0.0325                 | 0.08188                 |                         | -0.5582                | -0.2025                | 1.337                  | 0.07379                | 0.5531           | 0.1473           | 0.1488           |
| 608 | -0.4333                 | 0.3211                  | 1.784                   | 0.04098                | -0.3533                | 1.307                  | -0.03699               | 0.6023           | 0.4565           | 0.238            |
| 609 | 0.2245                  | 0.5489                  | 2.222                   | -0.3312                | -0.5155                | 1.545                  | 0.0008203              | 0.5702           | 0.3943           | -0.01422         |
| 610 | -0.4044                 | -2.33E-12               | 2.393                   | -0.1301                | -0.5644                | 1.606                  |                        | 0.6313           | 0.7654           | 0.4969           |
| 611 | -0.6113                 | 0.1631                  | 2.116                   | 0.123                  | -0.6713                | 1.579                  | 0.07504                | 0.5344           | 0.1586           | 0.2              |
| 612 | -0.2435                 | 0.05086                 | 2.324                   | 0.8707                 | -0.3535                | 3.336                  | 1.513                  | 2.352            | 1.776            | 1.198            |

Table 1

|     | NORWAY 39-AF | NORWAY 39-BE | NORWAY 15-AF | STANFORD 17 | STANFORD 35 | NORWAY 14-AF | NORWAY 14-BE | NORMAL    | NORMAL     | NORMAL    |
|-----|--------------|--------------|--------------|-------------|-------------|--------------|--------------|-----------|------------|-----------|
|     | ARRY27X      | ARRY26X      | ARRY47X      | ARRY49X     | ARRY48X     | ARRY5X       | ARRY4X       | ARRY6X    | ARRY8X     | ARRY7X    |
|     | 1            | 1            | 1            | 1           | 1           | 1            | 1            | 1         | 1          | 1         |
| 613 | -0.2828      | -0.2784      | 2.715        | 1.391       | 0.5172      | 3.787        | 1.943        | 2.873     | 2.267      | 3.348     |
| 614 | -0.08711     | -0.3527      | 2.851        | 1.287       | -0.05711    | 3.893        | 1.869        | 2.689     | 2.293      | 1.874     |
| 615 | -0.5389      | 0.2255       | 0.2088       | 0.6454      | -0.2889     | 1.251        |              | 0.07672   | -0.2191    | -0.3977   |
| 616 | -0.2296      | 0.6747       | 1.388        | -0.03539    | -0.8996     | 1.12         | 0.1866       |           | 0.6302     | 0.9516    |
| 617 | -0.5906      | 0.4037       | 1.307        | 0.04363     | -0.8806     | 1.079        | 0.2857       |           |            | 1.021     |
| 618 | -0.09        | 0.1644       | 1.388        | -0.2857     | 0.22        | 1.3          | 0.4163       | 1.786     | -0.4902    | 0.7412    |
| 619 | -0.03        | 1.004        | -0.7123      | 1.584       | 0.03        |              | 0.5063       | 0.6756    | 1.24       | 1.181     |
| 620 | 0.7313       | -0.9244      | -0.221       | 2.016       | -0.05875    | 0.2412       | -0.5025      |           | 1.681      | 2.143     |
| 621 | 0.035        | -0.1906      | -0.3173      | 0.7893      | 1.025       | 0.035        | -0.4187      | 0.9506    | 0.6848     | 1.186     |
| 622 | 0.3859       | 0.4302       |              | 0.9501      | -0.06414    | 0.5059       | 0.9721       |           | 0.2157     | 3.047     |
| 623 | -0.08781     | 0.3366       | 0.2499       | 1.126       | 0.4322      | 0.002187     | -0.9215      | -0.002187 | 0.822      | 0.3134    |
| 624 | 1.029        | 0.7831       |              | 2.383       | 1.149       |              | 0.885        |           | 1.349      | 1.71      |
| 625 | 0.5658       | 0.3602       | -0.08645     | 0.6501      | 0.5758      |              | -0.04789     |           | 0.4856     | 1.057     |
| 626 | 0.055        | -0.4006      | -0.5473      | 0.4993      |             | 0.865        | -0.2587      | 1.461     | 1.125      | 1.106     |
| 627 | 0.27         |              |              | 1.374       | 0.03        |              |              |           | 1.36       | 1.721     |
| 628 | 0.92         | 1.034        | 1.018        | 1.224       | 0           | -0.24        | -0.4237      | 1.606     | 1.24       | 1.441     |
| 629 | 0.0275       | -0.2281      | 1.055        |             | 0.5675      | 1.137        | -0.4262      | 1.843     | 1.387      | 1.189     |
| 630 | -0.7477      | -0.6733      | -0.009922    | 0.2266      | -0.1177     | -0.1077      | -1.121       | 0.04797   | 0.6121     | -0.006406 |
| 631 | -0.08687     | -0.5325      | -0.5991      | -0.3126     | -0.5669     | -1.627       | -0.2906      | 0.1988    | 0.5929     | 1.164     |
| 632 | 0.4562       | -0.009375    |              | 0.3005      | -0.2338     |              | -0.5175      | 2.312     | 1.136      | -0.6025   |
| 633 | 0.8701       | -0.4255      | 3.158        | 1.184       | 0.9201      |              | 0.01637      |           | 1.51       | 1.091     |
| 634 | 0            | -0.4656      |              | -2.116      |             |              |              | 1.676     | -1.31      | 0.06125   |
| 635 | -0.7326      | -0.5382      | 2.315        | 0.2816      | 1.797       |              | -0.3763      | 2.223     | 1.217      |           |
| 636 |              | -0.4145      | 0.1588       | -1.185      | 1.331       | -1.359       | -0.3526      | 1.417     | 1.971      | 1.252     |
| 637 | 1.01         | 0.1144       | 0.06773      | 0.1543      | 1.13        |              | -0.3137      |           | -0.4802    | -0.1887   |
| 638 | -0.1372      | -0.3628      | 0.6805       | -0.4629     |             |              | -0.5109      | 0.2184    | 0.6526     | 0.03406   |
| 639 | -0.1138      | -0.009375    | -0.356       |             | -0.3638     |              | -0.6375      | 1.612     | 0.5461     |           |
| 640 | 0.003125     | -0.9225      | 0.7009       | 1.087       | 0.6831      | -0.6469      | -0.3206      | -0.6312   | 0.01293    | -0.1256   |
| 641 | -0.2007      | 2.354        |              | -0.3964     |             |              | 0.5956       | 1.985     | -0.0008984 | 1.211     |
| 642 | -0.13        | 0.4244       |              | -0.2257     | -0.27       |              | -0.1037      | 0.7156    | 0.0798     |           |
| 643 | 0.2387       | -0.02688     | -0.3935      | 0.463       | 0.09875     |              | -0.745       | 1.014     | 0.4186     | 1.55      |
| 644 | 0.1694       | 1.104        | 0.9871       | 0.2436      | 1.469       |              | 0.005664     |           | 1.129      | 1.261     |
| 645 | 1.339        | -0.407       | 1.126        |             | 1.259       |              | -0.6951      | 2.384     | 1.218      | 0.7598    |
| 646 | -0.1912      | 0.3231       | -1.224       | -0.617      | 0.1787      |              | -0.135       | 1.704     | 0.4286     | 0.86      |
| 647 | -1.405       | -0.4905      | -0.8871      | -0.9006     | 0.1252      |              | -0.7986      | 3.861     | 2.935      | 2.656     |
| 648 | 0.61         | -0.6356      | 0.3377       | -5.256      |             | -0.41        | -0.3637      | 3.006     | 1.7        | -0.5788   |

Table 1

|     | NORWAY 39-AF | NORWAY 39-BE | NORWAY 15-AF | STANFORD 17 | STANFORD 35 | NORWAY 14-AF | NORWAY 14-BE | NORMAL  | NORMAL  | NORMAL | NORMAL |
|-----|--------------|--------------|--------------|-------------|-------------|--------------|--------------|---------|---------|--------|--------|
|     | ARRY27X      | ARRY26X      | ARRY47X      | ARRY49X     | ARRY48X     | ARRY5X       | ARRY4X       | ARRY6X  | ARRY8X  | ARRY7X | ARRY7X |
| 649 | -0.21        | 0.1744       | 0.2477       | 0.5643      | 0.63        |              | -0.4237      |         | 1.45    | 2.001  | 1      |
| 650 | -0.1639      | -0.1095      |              | -0.2096     | 0.05613     |              | -0.6676      | 0.9418  | 0.9859  | 2.527  |        |
| 651 | 0.3825       | 0.7669       | 0.2502       | 2.427       | 0.3325      | 2.942        | 2.479        | 1.238   | 0.8723  | 2.074  |        |
| 652 | 0.3558       | 0.4701       | -0.4165      | 2.48        | 0.3858      | 3.646        | 2.422        | 1.781   | 0.4756  | 2.127  |        |
| 653 | 0.3789       | 0.02328      | 0.2066       | 1.033       | 2.399       | 0.5189       | -0.3548      | -0.3455 | -0.4613 | 0.2602 |        |
| 654 | 1.25         | -1.126       | 2.857        | 1.344       | 1.86        | 1.28         | 0.836        | -0.1647 | 1.709   | -1.199 |        |
| 655 | 0.03         | -0.3056      | -1.272       | -0.06574    | -0.03       | 0.67         | 0.3863       |         | 1.39    | 0.8013 |        |
| 656 | 0.3831       | -0.2825      |              | 0.04738     | -0.1569     | 1.493        | -0.2506      | 3.229   | 0.8929  | 0.8344 |        |
| 657 | 0.405        | 0.07937      | 0.2827       | 0.2693      | 0.235       | 0.035        | 0.01129      | 2.921   | 1.825   | 2.236  |        |
| 658 | -1.309       | -1.214       | 0.339        | 0.6955      | 1.101       |              | 0.7275       | 2.517   | 2.071   | 3.222  |        |
| 659 | -1.266       | -1.522       | 0.001328     |             | 2.344       | 0.2036       |              | 3.309   | 1.893   | 2.845  |        |
| 660 | -0.9375      | -2.093       | -0.6798      | 1.157       | 2.852       | -0.2175      | 0.4388       | 3.838   | 2.342   | 3.114  |        |
| 661 | -0.8466      | -2.342       |              | 0.5777      | 3.803       | 0.07344      | 1.09         | 4.699   | 1.413   |        |        |
| 662 | -0.1738      | -0.4594      | -1.226       | -0.3395     | 0.4862      |              | 0.5225       | 2.912   | 0.9761  | 1.717  |        |
| 663 | -1.465       | -0.6209      | 2.202        | 1.259       | 1.275       | -1.255       | 0.601        | 3.53    | 1.954   | 2.006  |        |
| 664 | -1.192       | -0.7081      | 2.635        | 1.262       | 2.228       | -0.6325      | 0.8838       |         | 1.727   | 2.739  |        |
| 665 | -0.427       | -0.4926      | -1.639       | 0.6173      | 1.783       |              | 0.08934      | 3.039   | 2.533   | 3.064  |        |
| 666 | 0.34         | -0.3656      | -0.02227     | -0.05574    | 1.13        | 0.23         | -0.4837      |         | 3.21    | 3.731  |        |
| 667 | 0.97         | -1.696       | -0.5523      | 1.324       | 2.65        | 0.49         | -0.2437      |         | 3.67    | 4.371  |        |
| 668 | -0.5725      | -0.08812     | 0.2352       | -0.1182     | 1.678       | -0.0625      | 0.3138       | 4.923   | 2.927   | 1.899  |        |
| 669 | 1.103        | -0.2527      | 0.1307       | 0.5072      | 1.613       | 1.183        | 0.4592       | 2.949   | 2.013   | 2.934  |        |
| 670 | -1.07        | -0.7156      | -0.8823      | -0.5457     | 2.38        | 0.42         | 0.8763       | 5.596   | 3.42    | 3.371  |        |
| 671 | -0.1955      | -0.1511      |              | 0.7488      | 2.215       | 1.085        | 0.0008203    | 3.92    | 4.244   | 2.256  |        |
| 672 | -0.7677      | -0.7234      |              | -1.283      | 2.382       | 0.01227      | -0.01145     | 5.488   | 3.882   | 3.714  |        |
| 673 | -0.9489      | -0.4545      | -0.9112      | 0.6554      | 1.491       | 0.08109      | -0.4026      | 4.037   | 2.711   | 2.882  |        |
| 674 | -0.57        | -1.296       |              | 0.5543      | 3.29        |              |              | 6.646   | 2.56    | 4.151  |        |
| 675 | 0.3978       | -0.03781     |              | 1.022       | 1.918       | 1.188        | -0.0959      |         | 1.248   | 2.709  |        |
| 676 | -0.09        | -0.2356      | 0.6777       | 0.6143      | 1.16        | 1.43         | 1.186        | 2.466   | 1.73    | 1.601  |        |
| 677 | -0.4062      | 0.05813      | 0.3815       | 0.508       | 0.3038      | 0.06375      | 0.42         | 0.7594  | 1.424   | 1.145  |        |
| 678 | 0.24         | -0.3056      | 0.5777       |             |             | 1.26         | 1.186        | 2.896   | 1.64    | 2.491  |        |
| 679 | -0.97        | -0.5456      |              | -0.3857     | 0.51        | 0.8          | 0.9963       | 3.266   | 2.72    | 1.881  |        |
| 680 | -0.035       | 0.3494       |              | 0.09926     | -0.665      | 0.225        | 1.391        | 1.501   | 1.315   | 1.596  |        |
| 681 | 0.9178       | -0.09781     | -0.1745      | 0.7821      | 0.8378      | 0.6378       | -0.3459      | 1.833   | 2.058   | 2.379  |        |
| 682 | -0.2339      | -0.1795      | 0.1538       | 1.28        | 0.7461      | 1.786        | 1.132        | 2.092   | 2.746   | 2.887  |        |
| 683 | -0.4977      | -0.9834      | 1.17         | 1.197       | 0.4523      | 1.492        | 1.359        | 1.448   | 2.282   | 2.944  |        |
| 684 | 0.58         | -0.5556      | 0.7677       | 0.4443      | 0.09        | 2.97         | 0.9363       | 3.536   | 3.13    | 3.181  |        |

Table 1

|     | NORWAY 39-AF | NORWAY 39-BE | NORWAY 15-AF | STANFORD 17 | STANFORD 35 | NORWAY 14-AF | NORWAY 14-BE | NORMAL | NORMAL   | NORMAL  | NORMAL |
|-----|--------------|--------------|--------------|-------------|-------------|--------------|--------------|--------|----------|---------|--------|
|     | ARRY27X      | ARRY26X      | ARRY47X      | ARRY49X     | ARRY48X     | ARRY5X       | ARRY4X       | ARRY6X | ARRY8X   | ARRY7X  | ARRY7X |
| 685 | -0.4513      | -0.4469      | 1.596        | 0.103       | -0.3113     | 2.889        | 0.565        | 3.844  | 3.469    | -0.25   | 1      |
| 686 | -0.3313      | -1.967       | 2.336        | 0.613       | -1.101      | 3.629        |              | 4.304  | 4.239    | 4.1     | 1      |
| 687 | -0.52        | -1.336       | 1.658        | 0.1443      | -1.13       | 3.06         | 0.4963       | 3.776  | 3.86     | 3.151   | 1      |
| 688 | 0.05         | -0.4356      | 0.2977       | 1.164       | 0.36        | 0.94         | 0.9763       | 3.526  | 2.49     | 3.461   | 1      |
| 689 | 0.01719      | -0.5284      | 0.9549       | 0.3414      | 0.4972      | 1.647        | 1.073        | 3.133  | 2.387    | 3.768   | 1      |
| 690 | -0.5241      | -0.2598      | 1.094        | 0.3301      | 0.09586     | 0.7959       | 0.9121       | 2.321  | 0.7257   | 2.127   | 1      |
| 691 | 0.2087       |              | 0.7465       | 1.213       | 1.509       | 0.2687       | 0.525        | 4.534  | 1.279    | 2.42    | 1      |
| 692 | 0.1903       | -0.6953      | 1.078        | 0.9446      | 0.04031     | 1.03         | -0.1934      | 0.3059 | 0.6701   | 0.3716  | 1      |
| 693 | 0.2023       | -0.3534      |              | 0.5065      | 0.5423      |              | -0.02145     | 0.8879 | 0.9821   | 0.9635  | 1      |
| 694 | 0.6459       | -0.5997      |              | 0.8302      | 0.2059      |              | -0.3178      | 1.082  | 1.106    | 0.9472  | 1      |
| 695 |              | -0.6594      |              | 2.071       | 0.5862      |              |              | 0.2919 | 1.126    | 1.847   | 1      |
| 696 | 0.7387       | -0.3369      | -0.6935      | 1.553       | 0.6287      |              | -0.03496     | 0.9644 | 1.649    | 1.29    | 1      |
| 697 | 0.2322       | -0.7834      | -0.3101      | 0.7364      | -0.05781    |              |              | 0.9578 | 0.922    | 0.7634  | 1      |
| 698 | 0.463        | -1.253       | 0.2708       | 1.137       | -0.637      | 0.673        | 0.2593       | 0.5787 | 3.093    | 2.734   | 1      |
| 699 | -0.57        | -1.316       | 0.09773      | 0.2643      | -0.74       | 1.33         | 0.9963       | 0.8556 | 0.9298   | 1.561   | 1      |
| 700 | 0.4966       | -0.2691      |              | 1.071       | 0.4266      | 1.357        | -0.007148    | 2.322  | 2.226    | 3.848   | 1      |
| 701 | -0.1764      | -0.08203     | 0.001328     | 0.4579      | -0.3164     | -0.2464      |              | 0.7792 | 1.163    | 3.775   | 1      |
| 702 | 0.6711       | 0.1555       | -0.0117      | 1.425       | 0.02109     | 2.081        | 1.357        | 2.487  | 1.941    | 0.7623  | 1      |
| 703 | 0.8513       | -0.06437     | -0.191       | 1.416       | 0.1913      | 2.681        | 1.428        | 2.427  | 2.091    | 1.993   | 1      |
| 704 | 0.285        | -0.7806      | -0.6773      | 0.2093      | 1.075       | 0.345        | -0.3887      |        | 2.055    | 2.706   | 1      |
| 705 | 0.3361       | -0.3595      | 0.01383      | 0.2404      | 0.8561      | 0.6361       | -0.4276      | 0.3617 | 0.7659   | 1.687   | 1      |
| 706 | 0.1003       | -0.2754      |              | -0.2855     | 0.3503      |              | -0.5034      | 1.456  | -0.02992 | 1.062   | 1      |
| 707 | 0.4723       | -0.07336     |              |             | -0.09773    |              | 0.4686       |        | 0.8321   | 0.7035  | 1      |
| 708 | 1.075        | -0.2606      | 0.1527       | -0.7807     | -0.685      | 0.365        | -1.099       | 0.2306 | 1.055    | 0.05625 | 1      |
| 709 | 1.076        | -0.1697      | 0.2137       | 0.0102      | -0.5241     | 0.5859       | -0.1078      |        | 0.6357   | 0.5172  | 1      |
| 710 | 1.218        | -0.007813    |              | 0.1421      | 0.4478      | 0.7678       | 0.3241       |        | 1.878    |         | 1      |
| 711 | 1.116        | -0.1099      | -0.2566      | -3.91E-05   | 0.6657      | -0.8057      | 0.302        | 2.421  | 1.826    | 1.097   | 1      |
| 712 | 0.9962       | 0.5905       |              | 0.1604      | 0.09617     | 0.6762       | 0.5525       | 2.002  | 1.566    | 0.1474  | 1      |
| 713 | 1.236        | -0.09008     | 0.9633       | 0.4898      | -0.02445    | 1.586        | 0.1418       | 1.471  | 1.975    | 1.957   | 1      |
| 714 | 1.398        | -0.4775      | 1.366        | 0.9424      | 0.1681      | 1.328        | 0.06441      | 1.824  | 1.848    | 2.289   | 1      |
| 715 | -0.8         | 0.5344       |              | -1.046      | 0.57        |              | -0.1137      | 1.386  | 0.0898   | 0.4512  | 1      |
| 716 | -1.163       | 0.02152      | -0.9151      | -0.7286     | -0.7529     | -0.1329      | -0.08656     | 0.7128 | -0.01305 | -0.4116 | 1      |
| 717 | 0.4537       | -0.6819      | 0.1715       | 0.108       | 0.07375     | 0.6937       | 0.06004      | 0.6994 | 1.784    | 1.435   | 1      |
| 718 | -0.4813      | -1.297       | -1.614       | -2.067      | -0.1313     | -1.641       | -0.355       | 1.554  | 1.929    | 1.85    | 1      |
| 719 | 0.945        | 0.6794       | 0.4927       | 0.2193      | 0.905       | 0.095        | -0.2287      |        | 1.315    | 0.8762  | 1      |
| 720 | -0.12        | -0.5956      | 0.8077       | 0.6143      |             | 1.89         | -1.204       |        | -0.3302  | 0.8713  | 1      |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 721 | -0.165                  | -0.7606                 | 1.163                   | 0.9093                 | -0.745                 | 1.275                  | 0.8213                 | 2.031            | 2.535            | 2.056            |
| 722 | 1.4                     | 0.3041                  | -0.02258                |                        | 0.2097                 | 0.6297                 | -0.754                 | 0.3053           | 0.6895           | 2.881            |
| 723 | -0.23                   | 0.5044                  | -0.5023                 | -0.4257                | 0                      |                        | 1.056                  | 1.026            | 1.23             | 0.9913           |
| 724 | 0.3594                  | 0.2138                  |                         | -1.966                 |                        | 0.1794                 | 0.4857                 | 1.895            | 1.119            |                  |
| 725 | 1.28                    |                         | 0.9677                  | -0.9657                |                        | 1.31                   | 0.2063                 |                  | -0.0302          |                  |
| 726 | 1.453                   | -0.843                  | 0.0003906               | 1.047                  | 1.783                  | 0.1427                 | 0.05895                | 1.138            | 0.6425           | -0.1261          |
| 727 | 1.147                   | -0.7281                 |                         | 0.2418                 | 0.8275                 | 1.017                  | -0.1262                | 2.453            | 0.3473           |                  |
| 728 |                         | -0.5399                 |                         | -1.7                   | -0.4543                |                        | -0.168                 | 1.901            | 0.8755           |                  |
| 729 |                         | -0.2028                 | 1.181                   | 0.9271                 | 1.153                  | 0.8628                 | -0.2909                | 0.7684           | 1.023            | 0.5341           |
| 730 | 0.6144                  | -0.8513                 | 1.322                   | 0.8486                 | 1.334                  | 1.184                  | -0.4793                | 0                | 0.9542           | 0.7756           |
| 731 | 0.11                    | 0.3844                  | -0.4923                 | 0.7943                 | 0.61                   | -0.29                  | 0.5463                 | -0.4144          | 0.2398           | 0.00125          |
| 732 | 0.05414                 | 0.5485                  | -0.2181                 | -0.5016                | -1.146                 | 0.2341                 | 0.3004                 | 1.02             | 0.7639           | 0.3554           |
| 733 | 1.1                     | -0.07563                |                         | -0.02574               | 0.11                   | -0.63                  | 0.6163                 |                  | 0.0298           | -0.3488          |
| 734 | -0.2773                 | -0.533                  | 0.1804                  | 0.2069                 | 0.3027                 |                        | 0.7689                 | 1.618            | 2.542            | 1.904            |
| 735 | 0.04508                 | -0.0005469              |                         | 0.4393                 | 0.3651                 |                        | 0.001367               | 1.231            | -0.1251          | -0.3837          |
| 736 | 0.1397                  | 0.4841                  | 1.027                   | 0.1539                 | 0.2997                 | 0.1997                 | 0.04598                | -0.004687        | -0.01051         | 0.1909           |
| 737 | -0.03086                | -0.03648                | -0.6431                 | 0.5834                 | -0.5209                | 1.869                  | 2.325                  | 0.8048           | 1.279            | 1.19             |
| 738 | 0                       | -0.2656                 | -0.4823                 | 0.5243                 | -0.12                  | 0.82                   | 0.9163                 | 0.3756           | 0.9598           | 0.8112           |
| 739 | 0.08563                 | 0.47                    | 0.5634                  | -0.02012               | -1.564                 | 1.046                  | 2.072                  | 0.5013           | 0.8654           | 0.8369           |
| 740 | -0.03437                | -0.03                   | -0.6566                 | 0.4199                 | -0.2444                | -0.2144                | -0.3481                | 0.6213           | 0.6454           | 0.3869           |
| 741 | -0.1019                 | 0.0725                  | -2.264                  | 0.1924                 | 0.4381                 | -0.3919                | -0.2456                | 3.114            | 1.068            | 1.179            |
| 742 | -0.59                   | -0.1056                 | -0.1423                 | 0.1143                 | 0.11                   | 0.42                   | 0.2263                 | -0.7244          | -0.1702          | 0.1413           |
| 743 | -0.34                   | 0.3044                  | 0.3477                  | 0.7143                 | 0                      | 0.92                   |                        | 2.036            | 2.29             | 2.101            |
| 744 | -0.5075                 | -0.6931                 | -0.1698                 | -0.9732                | -0.6375                | 0.6725                 | 0.7488                 | -0.2719          | 0.5423           | 0.4338           |
| 745 | -0.7937                 | -0.3894                 | 0.304                   | -0.7395                | -0.1237                | 0.4462                 | 0.7225                 | -0.1081          | 0.2061           | -0.1625          |
| 746 | -0.5342                 | -0.4898                 | -0.2864                 | 1.34                   | 0.7458                 |                        | 0.1221                 | 3.111            | 1.146            | 1.417            |
| 747 | -0.5825                 | -0.6181                 | 0.5852                  | 1.452                  | -0.0225                | -0.7575                | 0.7538                 | 2.313            | 1.937            | 1.579            |
| 748 | -0.3389                 | 0.4155                  | 0.6288                  | 1.235                  | 0.1111                 | 0.5511                 | 1.197                  | 2.477            | 1.741            | 1.592            |
| 749 | -0.1836                 | -1.149                  | 0.1641                  | 1.381                  | -0.4436                | 0.7764                 | 0.4727                 | 1.522            | 1.076            | 1.348            |
| 750 | 0.0474                  | -0.9082                 | 0.06514                 | 0.4817                 | -0.6526                | 1.947                  | 0.3337                 | 1.533            | 1.777            | 1.049            |
| 751 | 0.5812                  | 0.9255                  |                         | -0.2946                | 0.7412                 |                        | 0.3175                 | 1.607            | 2.841            | 2.992            |
| 752 | -1.092                  | -0.7081                 | 1.145                   | 0.4818                 | -0.1525                | 1.277                  | 1.444                  | -0.7969          | 0.6273           | 0.2688           |
| 753 | -0.8521                 | -0.6278                 | 1.636                   | -0.06789               | -0.3621                | 1.338                  | -0.1959                | 0.9435           | 2.028            | 2.039            |
| 754 | 0.5967                  | -0.2489                 | 0.7145                  | 1.131                  | -0.1133                | 0.3367                 | -0.717                 | -0.2877          | 0.3765           | 1.268            |
| 755 | -1.123                  | -1.499                  | -0.6655                 | 0.581                  | 0.1967                 | -0.1633                | 0.04301                | 1.952            | 1.157            | 1.968            |
| 756 | -0.335                  | -0.3606                 | 0.6127                  | -0.8607                | -0.535                 | 1.995                  | 2.161                  |                  | 1.175            | -1.174           |



Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 757 | -0.6671                 | -0.3827                 | 0.8206                  | -0.2429                | -0.7571                | 1.843                  | 2.169                  | 1.149            | 0.9927           | 0.3141           |
| 758 | -1.104                  | -0.86                   | -0.1866                 | 0.6099                 | -0.04437               | 1.036                  | 1.392                  |                  | -0.4246          | 0.1869           |
| 759 | -0.46                   | 1.414                   | -1.182                  | 0.9343                 | -0.51                  | 2.46                   | 2.316                  | 4.256            | 1.97             | 2.301            |
| 760 | -0.6517                 | -0.5573                 | 1.546                   | 0.4725                 | 0.5683                 | 0.7783                 | 1.235                  | 3.054            | 1.648            | 1.88             |
| 761 | 1.317                   | -1.548                  | 0.7752                  | -0.09824               | -0.7025                | 1.457                  | -0.3162                | 1.013            | 0.8873           | 1.089            |
| 762 | -0.12                   | -0.1156                 | 0.1577                  | 1.284                  | 0.45                   | 1.55                   | 0.1163                 | 0.05563          | 1.49             | 1.101            |
| 763 | 2.116                   | 2.891                   |                         | -0.3095                | 3.056                  |                        | -0.1475                | 1.132            | 1.706            | 0.9575           |
| 764 | -0.962                  | -0.6477                 | -1.064                  | -0.6078                | -0.162                 | -0.992                 | -1.486                 | 1.014            | 0.9278           | 0.5392           |
| 765 | -0.9933                 | -0.9289                 | -0.1055                 | -0.359                 | 0.3467                 | -1.013                 | -1.237                 | 0.6623           | 1.077            | 0.828            |
| 766 | -0.8028                 | -0.2384                 | 0.9049                  | -1.169                 | 0.4772                 | -0.2328                | 0.3935                 | -1.207           | -0.443           | -0.6716          |
| 767 | -1.12                   | -0.2056                 | -1.552                  | -0.5857                | -0.59                  | 0.27                   | 1.726                  | -1.224           |                  | -3.009           |
| 768 | -0.8003                 | -0.3659                 | -2.863                  | -1.166                 | -0.04031               | 0.3497                 | 1.876                  | -0.6947          | -0.4905          | -4.029           |
| 769 | -0.04                   | 0.3744                  | -0.6723                 | 0.2943                 | -0.41                  | -0.01                  | 1.996                  | -0.05438         | -0.0802          | 0.5312           |
| 770 | -0.3256                 | -0.2412                 | -2.238                  | -0.1014                | -1.596                 |                        | 0.02066                | -0.73            | 0.9842           | -0.004375        |
| 771 | -0.3544                 | -0.76                   | -0.3166                 |                        | -1.464                 | 1.866                  | 2.422                  | 0.5713           | 0.07543          | 0.4569           |
| 772 | 0.1156                  | -0.03                   | -0.9566                 | -0.03012               | 0.3356                 | -1.054                 | -0.2581                | -1.519           | -0.6446          | -0.8831          |
| 773 | 0.015                   | -0.2906                 |                         | -1.291                 | -0.315                 | 0.225                  | -0.5687                | 0.8306           | 0.0248           | 0.8463           |
| 774 |                         |                         |                         | -0.5482                | 0.8175                 | 0.8575                 | -0.2962                | 0.4531           | 0.5173           | 1.329            |
| 775 | -0.3625                 | -0.1681                 | -0.2048                 | 0.2118                 | -0.4225                | -0.4125                | 0.1038                 | -0.6569          | 0.3473           | 0.5488           |
| 776 | -1.332                  | -1.708                  | -0.3543                 | 0.1022                 | 0.06797                |                        |                        | 1.054            | 0.6178           | 0.9492           |
| 777 | 0.03                    | -0.6956                 | 0.5377                  | 0.1643                 | 0.21                   | -1.18                  | -0.2837                | -0.8444          | -0.2002          | -0.2487          |
| 778 | -1.365                  | -0.8106                 | -1.477                  | 0.3193                 | 0.265                  | -0.295                 | 0.9013                 | -1.049           | 0.5148           | 0.1363           |
| 779 | -0.7927                 | -0.6384                 | -0.965                  | -0.4085                | -0.1827                | -1.793                 | -1.036                 | -1.517           | -0.08293         | -0.4815          |
| 780 | 0.6187                  | 1.473                   | -0.4935                 | -1.027                 | -1.371                 | -0.5913                | 1.335                  | -0.5256          | -0.01145         | -0.27            |
| 781 | -0.2341                 | -0.9498                 | 0.7236                  | -0.3099                | -0.1841                |                        | -0.5279                | -0.3785          | 0.2657           | -0.1429          |
| 782 | -0.7263                 | -1.212                  | -0.6786                 | -0.6621                | 0.5837                 | 0.01367                | -0.25                  |                  | 0.4235           | 0.5049           |
| 783 | -0.4584                 | -0.514                  | 0.05938                 | -1.594                 | 1.322                  | -0.6284                | -0.6521                |                  | 0.06145          | -0.1771          |
| 784 | -0.4332                 | -0.1688                 | 1.115                   | 0.201                  | -0.9232                |                        | -0.6769                |                  | -0.5534          | -0.402           |
| 785 | 0.46                    | 0.4344                  | -0.8723                 | 0.5643                 | 0.63                   | -0.9                   | 0.1363                 | -0.2244          | 0.4098           | 0.09125          |
| 786 | -0.965                  | -1.031                  | -0.9773                 |                        | -0.475                 | -0.825                 | -1.709                 | 0.6306           | 0.0848           | 0.09625          |
| 787 | -0.3842                 | -0.5298                 | -0.3365                 | 0.24                   | 1.136                  |                        | 0.02207                |                  | -0.3944          | -0.283           |
| 788 | -0.6022                 | -0.2178                 | -0.5345                 | 0.6221                 | 0.02781                | -0.6722                | 0.1341                 | -0.02656         | 0.4476           | 0.4291           |
| 789 | 0.3                     | -0.01563                | -1.192                  | -0.4157                | -0.03                  | -1.58                  | -1.314                 | -0.3944          | -0.2802          | -0.3188          |
| 790 | -0.43                   | 0.08438                 | 0.3177                  | 0.05426                | 0.53                   |                        |                        | -1.514           | -0.2802          | 0.2413           |
| 791 |                         | -0.2134                 | -0.4                    | 0.3565                 | 0.5523                 | -0.8877                | -0.03145               | -0.1121          |                  | -0.3965          |
| 792 | 0.1673                  | -1.128                  | 0.02508                 | 0.6416                 | 0.1273                 | -0.6627                | -0.6964                | -0.807           | 0.4871           | 0.1686           |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 793 | -2.264                  | -1.89                   | -0.01617                | -1.85                  | -0.2839                | 0.9161                 | 1.942                  | -0.7783          | -1.574           | 0.2973           |
| 794 | -0.115                  | 0.06938                 |                         | -0.8307                | -0.415                 |                        | -0.3587                |                  | -0.3152          | 0.2763           |
| 795 | -0.55                   | -0.1956                 | -0.6023                 | -0.3557                | 0.46                   | -0.85                  | -0.2737                | -0.7744          | -0.2202          | -0.1188          |
| 796 | -1.414                  | -1.139                  | -0.566                  |                        | -0.1238                | -0.4638                | 0.3425                 | -0.05812         | -0.3839          | -0.2025          |
| 797 | -0.48                   | -0.4956                 | -1.232                  | -0.1257                | -0.44                  | -0.23                  | 0.6663                 | -0.9344          | -0.2102          | -0.7287          |
| 798 | -0.5872                 | -0.7628                 | -0.6795                 | -0.5129                | 0.01281                | -0.1272                | 1.039                  | -0.6116          | -0.6374          | -0.3559          |
| 799 | 0.5611                  | -0.5645                 | 0.05883                 | -1.395                 | -0.05891               |                        |                        | 0.4667           | -1.279           | -1.258           |
| 800 | -0.4836                 | 0.1808                  | -1.136                  | -0.7493                | 0.1964                 |                        | 0.1227                 | 0.852            | -0.5738          | -0.3923          |
| 801 | -0.1487                 | -0.1244                 | -0.871                  | -0.5145                | 0.3712                 | 0.3412                 | 1.368                  | -1.243           | -0.7289          | -0.6275          |
| 802 | -0.3575                 | -0.02313                | -0.3998                 | 0.02676                | 0.4725                 | -0.7175                | -0.5412                | -1.052           | -0.6677          | -0.8263          |
| 803 | -1.16                   | -0.2056                 | -1.142                  | -0.3057                | 0.28                   | -1.05                  | 0.006289               | -0.7844          | -0.5202          | -0.3088          |
| 804 | 1.267                   | -1.099                  | -1.675                  | -1.539                 | 0.06695                | -0.243                 | -0.06676               | -0.2274          | -0.6032          | -0.7718          |
| 805 | -0.8345                 | -0.5901                 | -0.08672                | -0.8102                | 0.03555                | -0.3945                | -0.2782                | -0.2388          | -0.7446          | -0.4632          |
| 806 | -0.27                   | 0.6644                  | -0.9223                 | -0.07574               | 0.54                   | -1.73                  | 0.006289               | -1.494           | -0.0502          | -0.1787          |
| 807 | -1.122                  | -0.6978                 | -0.2045                 | -0.05793               | -0.1422                | 0.3678                 | 0.0141                 | -0.3766          | 0.2676           | -0.1509          |
| 808 | -0.6544                 | -0.3                    | -0.3366                 | -0.4601                | 0.005625               | -0.8944                | 0.04191                | 0.1213           | -0.3246          | -0.04312         |
| 809 | -0.75                   | -0.4956                 | 0.3577                  | -0.2757                | -0.14                  | 0.3                    | 1.086                  | 0.8756           | -0.0802          | -0.6387          |
| 810 | -0.3572                 | -0.5928                 | -1.029                  | -0.5729                | -0.04719               | -0.3072                | 0.3491                 | -0.9816          | -0.3774          | -0.6859          |
| 811 | -0.6289                 | -0.3545                 | -0.2612                 | -0.02465               | 0.3011                 | -1.819                 | -0.6326                | -0.4233          | -1.159           | 0.4823           |
| 812 | -1.141                  | 0.04312                 | -0.9135                 | -1.087                 | -0.4613                | -1.821                 | 0.06504                | -1.646           | -0.8314          | -1.13            |
| 813 | -0.125                  | -0.7706                 |                         |                        | 0.015                  |                        | -0.7787                | 0.1106           | -2.305           |                  |
| 814 | 0.3761                  | -0.1295                 |                         | -1.45                  | -0.5739                | -1.374                 | -0.5176                | 0.4717           | -1.754           | -1.833           |
| 815 | 0.505                   | 0.9794                  | -0.8073                 | -1.611                 | -0.035                 |                        | -0.07871               | 0.3106           | -1.235           |                  |
| 816 | 0.04063                 | -0.365                  | -1.752                  |                        | 0.1106                 |                        | -0.08309               | 1.676            | -1.53            | -3.748           |
| 817 | -1.165                  | -0.4306                 | -0.2073                 | -0.9007                | -0.705                 | -1.605                 | 0.2713                 | -0.3394          | -0.3952          |                  |
| 818 | -1.797                  | -0.3525                 | -1.129                  | -1.333                 | 0.1831                 | -0.3269                | -0.6906                | 0.5988           | -0.5971          | -0.6556          |
| 819 | 0.5487                  | -0.4869                 | -0.6835                 | -0.877                 | -1.001                 | -0.6113                | -0.265                 | -1.756           | -0.2614          | -1.24            |
| 820 | 0.3974                  | 0.09178                 |                         | 0.1017                 | -0.2626                | 0.2274                 | 0.2237                 |                  | -1.033           | -2.321           |
| 821 | 0.2311                  | 0.6455                  | -1.651                  | 0.3954                 | 0.4111                 |                        | 0.9174                 | -2.203           | -1.309           | -1.368           |
| 822 | 0.17                    | -0.1656                 | -0.8523                 | -0.5557                | 0.85                   | -0.88                  | -0.2837                |                  | -0.7202          | 1.171            |
| 823 | -1.075                  | -0.5107                 | -0.2273                 | -0.8808                | -0.1451                | -0.8151                | 0.2412                 | 0.2005           | -0.3253          | -0.7238          |
| 824 | 0.2156                  | 0.49                    | -1.777                  | -0.7501                | -0.7344                |                        | -0.4681                | -0.3487          | -0.3246          | -0.7731          |
| 825 | 0.08645                 | 0.06082                 | -0.7458                 | 0.0307                 | 0.07645                | -0.2236                | 0.3127                 | -0.04793         | -0.5238          | 1.648            |
| 826 | 0.203                   | -0.3526                 | -0.8392                 | -1.253                 | -0.187                 | -0.08695               | -0.6307                |                  | -0.8171          | -0.2957          |
| 827 | -0.3206                 | -0.2463                 | -0.5829                 | -0.5564                | 0.01937                | -1.611                 | 0.1257                 | -0.795           | -0.8208          | 0.6006           |
| 828 | -0.2838                 | -0.7995                 | -0.3761                 | -0.7296                | -0.4538                | -0.7238                | -0.2876                | -0.3782          | -1.094           | -0.6126          |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 829 | -0.2717                 | 0.2127                  | -0.674                  | -0.7875                | 0.6283                 | -1.852                 | -0.2054                | -0.4861          | -0.5719          | -0.3505          |
| 830 | -0.577                  | 0.7573                  | -1.083                  | -1.083                 | 0.433                  | -0.7216                | -0.2807                | -1.297           | -1.566           | -1.566           |
| 831 | 0.6084                  | -0.1673                 | -1.667                  | -1.667                 | -0.7816                | -0.7216                | 1.125                  | -0.766           | -1.532           | -0.8104          |
| 832 | -0.5455                 | -0.1212                 | -1.028                  | -1.231                 | -0.1355                |                        |                        | -0.9499          | -1.716           | -1.614           |
| 833 | 0.6525                  | -0.2131                 | -1.563                  | -1.563                 | -0.5675                |                        | -0.7412                | -0.2119          | -1.308           | -0.5262          |
| 834 | 0.3116                  | -0.09398                | -1.481                  | -2.934                 | -1.518                 | -3.508                 | 0.06793                | -0.0175          | -3.579           | -3.477           |
| 835 | 0.006875                | 0.1413                  |                         | -2.059                 | -1.063                 |                        |                        | -2.123           | -2.123           | -1.702           |
| 836 | -0.2361                 | -0.4017                 |                         | -2.022                 | -1.406                 |                        | 1.32                   |                  | -2.346           |                  |
| 837 | -0.1743                 | -0.1699                 | -0.6266                 | -3.91E-05              | 0.3757                 | -0.9143                | -0.538                 | -0.6387          | -0.5545          | -1.123           |
| 838 | -0.32                   | -0.4056                 | -0.6523                 | -0.9757                | 0.08                   | -0.85                  | 0.2363                 | -1.084           | -1.11            | -0.6987          |
| 839 | 0.81                    | 0.08437                 | -1.222                  | -1.256                 | 0.28                   |                        | -0.6937                |                  | -0.6502          | -0.6588          |
| 840 | -0.6049                 | -0.5705                 | -0.9372                 | -1.231                 | 0.4251                 | -0.3749                | 0.4514                 | -0.009297        | -0.2951          | -0.7137          |
| 841 | -0.255                  | -0.2906                 | -0.04727                | -0.7407                | 0.395                  | -0.185                 | -0.6187                | -0.8394          | -0.6852          |                  |
| 842 | -0.18                   | 0.1944                  | -1.392                  | -0.3057                | 0.43                   |                        | -0.3637                | -0.4644          | -0.3202          | -0.2188          |
| 843 | -0.2557                 | -0.2513                 | -0.588                  | 0.5286                 | 0.5043                 | -0.8357                | -0.009414              | -0.5401          | 0.1741           | -0.09445         |
| 844 | -1.07                   | 0.08469                 | -1.012                  | -0.01543               | 0.2503                 | -0.5297                | -0.3634                | -2.154           | 0.02012          | -0.1884          |
| 845 | -0.3427                 | 0.4617                  | -0.7949                 | 0.1016                 | 0.4573                 | -1.483                 | -0.3664                | 0.02297          | 0.3971           | -0.04141         |
| 846 | -0.5322                 | -0.1178                 | -0.7845                 | -0.8979                | 0.04781                | -0.7222                | -0.3159                | -0.8566          | -0.5724          | -1.161           |
| 847 | -0.5487                 | -0.07437                | -0.681                  | 0.1155                 | -0.2888                | -0.7688                | -0.2625                | -0.2331          | -0.08895         | -0.8075          |
| 848 | 0.2083                  | 1.383                   | -2.564                  | -0.1875                | 0.5983                 | -1.072                 | 0.2746                 | -0.9761          | -0.001914        | -0.1505          |
| 849 | 9.78E-11                | 0.6044                  | -3.912                  | -0.7057                | -0.43                  | -1.14                  | 0.4163                 |                  | -1.01            | -1.909           |
| 850 | 0.46                    | -0.1056                 | -1.202                  | -0.2857                | 0.71                   | -1.45                  | -0.4537                | -1.614           | -0.8602          | -1.999           |
| 851 | 0.1675                  | -0.1681                 |                         | -1.638                 | 0.7075                 |                        | -0.5162                | -0.2369          | -1.923           | -1.821           |
| 852 | -0.07                   | -0.5256                 | -2.982                  | -2.436                 | -1.5                   | -1.43                  | 1.146                  | -0.8844          | -2.5             | -2.979           |
| 853 | -0.2613                 | 0.8131                  | -1.204                  | -1.087                 | -0.4813                | -1.571                 | 0.795                  | -4.516           | -1.641           | -1.98            |
| 854 | 0.006562                | 0.5509                  | -0.7057                 | -1.259                 | -0.4134                | -0.7334                | 0.5329                 |                  | -1.524           | -1.572           |
| 855 | -0.4412                 | -0.3069                 | -3.474                  | -1.187                 | 0.00875                |                        | -0.06496               | -2.226           | -1.251           | -1.3             |
| 856 | -0.00375                | -0.4794                 | -0.856                  | -1.169                 | -0.04375               | -1.234                 | -0.1575                | -0.8081          | -1.234           | -0.9125          |
| 857 | -0.76                   | -0.4356                 | -1.092                  | -1.906                 |                        | 0                      | 0.3663                 | -1.424           | -1.19            | -3.089           |
| 858 | 0.24                    | -0.2756                 | -1.732                  | -2.186                 | 0.07                   |                        | -0.4737                |                  | -1.83            |                  |
| 859 | 0.1881                  | 0.2725                  | -1.144                  | -1.178                 | 0.1881                 | -0.001875              | -0.5556                | -0.1562          | -1.362           | -1.921           |
| 860 | -0.275                  | -0.7006                 | -0.1373                 | -1.231                 | -0.155                 | -1.225                 | -0.1087                | -0.8494          | -1.175           | -1.454           |
| 861 | -0.205                  | -0.4406                 | -0.8773                 | -1.571                 | 0.405                  | -2.045                 | -0.2487                | 0.1106           | -1.115           | -0.8737          |
| 862 | -0.2444                 | -6.99E-12               | -0.2866                 | -1.98                  | 0.9656                 |                        | -1.198                 |                  | -2.265           | -1.743           |
| 863 | 0.1872                  | -0.4084                 | -0.6451                 | -1.179                 | 0.2372                 |                        | -1.057                 |                  | -1.823           | -2.142           |
| 864 | -0.845                  | -0.03063                | 0.9027                  | -1.911                 | -0.195                 |                        | -0.2087                |                  | -0.8952          |                  |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 865 | -0.4189                 | -0.01453                | -1.011                  | -1.565                 | -0.2689                | -2.039                 | -0.1626                | 0.2967           | -1.429           | -1.429           |
| 866 | -0.3422                 | 0.2122                  | -0.8245                 | -1.518                 | 0.9978                 | -1.772                 | -0.3959                | -0.8966          | -1.702           | -3.061           |
| 867 | -0.1691                 | -0.004687               | -0.2613                 | -0.9148                | -0.02906               | -0.7091                | -0.3228                | -0.9534          | -1.099           | -1.258           |
| 868 | -0.4169                 | -0.0225                 | -1.339                  | -1.953                 | 0.3231                 |                        | -0.8306                | -1.191           | -1.697           | -1.596           |
| 869 | -0.09719                | -0.2528                 | -0.5295                 | -2.783                 | -0.3672                |                        | -0.5609                |                  | -2.107           | -2.006           |
| 870 | -0.2772                 | -0.1428                 | -1.309                  | -1.023                 | 0.3128                 |                        | -0.1409                | -0.6816          | -1.827           |                  |
| 871 | -0.2184                 | 0.356                   | -0.5906                 | -1.294                 | -0.6084                | -0.7984                | 0.00793                | -1.623           | -1.649           | -1.547           |
| 872 | -0.7937                 | -0.009375               | -0.786                  | -2.039                 | 0.3263                 |                        | -0.1775                | -0.07812         | -1.224           | -1.262           |
| 873 | -1.14                   | -0.8856                 | -2.732                  | -1.766                 | 0.06                   | -2.76                  | -0.3237                | -0.6644          | -1.69            | -1.469           |
| 874 | 0.1095                  | -0.04617                | -0.5028                 | -1.316                 | 0.8395                 | -1.451                 | -0.1943                | -1.115           | -0.8407          | -4.739           |
| 875 | -0.6525                 | -0.2881                 | -0.5248                 | -4.018                 | 0.2575                 | -1.433                 | 0.1038                 | -1.257           | -1.763           |                  |
| 876 | -0.33                   | -0.7156                 | -0.03227                | -1.186                 | 0.01                   | -1.64                  | -1.284                 | -0.8844          | -0.9102          | 0.09125          |
| 877 | -0.09172                | -0.04734                | -1.044                  | -1.397                 | -0.1417                | -1.072                 |                        | -1.556           | -1.142           | -1.36            |
| 878 | -0.33                   | -0.1056                 | -0.7323                 | -1.286                 | -0.14                  | -1.18                  | -0.7237                | -1.544           | -1.35            | -1.349           |
| 879 | 0.00375                 | 0.9781                  | 1.001                   | -0.03199               | -0.6763                | -1.526                 |                        | -1.981           | -1.006           | -1.375           |
| 880 | -1.025                  | -0.2408                 | -0.4875                 | -1.271                 | -0.2552                | -1.385                 | -0.06891               | -1.87            | -1.585           | -1.414           |
| 881 | -1.388                  | -0.5031                 | 0.3402                  | -0.6332                | -0.1875                | -1.428                 | -0.1312                | -1.132           | -0.6977          | -0.9063          |
| 882 |                         | -0.1895                 | 0.03383                 | -0.3196                | -0.5139                | -0.8439                | -0.3476                | -0.5083          | -0.2341          | -0.2827          |
| 883 | -1.183                  | -1.018                  | 0.1851                  | -0.6784                | -0.3527                | -0.8227                | -0.4264                | -0.867           | -0.1729          | -0.6914          |
| 884 | -0.8219                 | -0.6575                 | -0.2741                 | -0.7676                | -0.2519                | -0.06188               | 0.1044                 | -0.3462          | -0.6621          | -0.5506          |
| 885 | -0.3577                 | -0.3734                 | -1.01                   | 0.08652                | -0.2077                | -0.08773               | 0.2886                 | -1.382           | -1.108           | -1.106           |
| 886 | 0.6611                  | 0.1955                  | -4.301                  | 0.4754                 | -0.2289                | -2.449                 | -0.01262               | -2.253           | -1.279           | -1.418           |
| 887 | 2.373                   | 0.1469                  |                         | -1.133                 | -0.0875                | -1.518                 | -0.1912                | -0.04187         | -1.418           |                  |
| 888 | -0.7212                 | -0.3669                 | -0.5135                 | -0.397                 | -0.1313                | -0.3913                | -0.205                 | -0.1256          | -0.05145         | 0                |
| 889 | -1.086                  | -0.322                  | -0.8987                 | -0.5521                | -0.2564                | -0.07641               | -0.05012               | 0.4092           | -0.6166          | -0.8952          |
| 890 | -0.06586                | 0.3485                  |                         | -0.6516                | 0.004141               |                        | -1.21                  |                  | -1.216           | -0.8046          |
| 891 | -0.01172                | 0.3327                  | -0.274                  | -0.3075                | -0.1117                | -0.4617                | -0.1054                | 0.4539           | -0.2219          | -0.4305          |
| 892 |                         | 0.1533                  | -0.2134                 | -0.4468                | -0.01109               | -0.5811                | 0.1552                 | -1.355           | -0.8513          | -1.21            |
| 893 | -0.5677                 | -0.1433                 | -2.56                   | -0.9334                | -0.3377                | -0.9277                | 0.02863                | -0.892           | -0.3879          | -0.4364          |
| 894 | -0.1175                 | -0.6331                 | -0.3598                 | -0.6632                | -0.5675                | 0.5725                 | -0.7412                | 0.1981           | 0.0723           | -0.4462          |
| 895 | 0.3913                  | -0.6344                 | -0.851                  | -0.05449               | 0.3513                 |                        | -0.4125                | -0.5131          | -0.5989          | -1.697           |
| 896 | -0.7548                 | -0.03039                | -0.477                  | -0.6905                | -0.09477               | -1.115                 | 0.001523               |                  | -0.955           | -0.6535          |
| 897 | -0.2111                 | -0.08672                | -0.5434                 | -0.4468                | -0.07109               | -1.501                 | 0.3252                 |                  | -1.131           | -1.23            |
| 898 | 0.8611                  | -0.6145                 |                         | -1.645                 | -1.189                 |                        | 0.05738                |                  | -2.029           | -1.608           |
| 899 | -0.43                   | -0.2756                 | 0.007734                | -0.1257                | -0.31                  |                        | -0.3837                | -0.1944          | -1.22            | -1.709           |
| 900 | 0.19                    | -0.5456                 | 0.7677                  | -1.756                 | 0.22                   | -0.75                  | -1.094                 |                  | -1.82            | -1.719           |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 901 | 0.3386                  | -0.08703                | -0.8037                 | -1.257                 | 0.2086                 |                        | -0.1851                | -0.2458          | -1.322           | -0.9502          |
| 902 | -0.09891                | -0.5845                 | -0.9912                 | -0.06465               | -0.1789                | -1.019                 | 0.3474                 | -1.133           | -0.6291          | -0.09766         |
| 903 | -0.9113                 | -0.8069                 | -0.5835                 | -0.557                 | 0.9487                 | 0.7087                 | -0.635                 | -1.656           | -0.3414          | 2.09             |
| 904 | -0.4306                 | -0.3863                 | 0.7471                  | -0.5364                | 0.8794                 | 0.3794                 | -0.6043                | -0.915           | -0.1408          | 2.381            |
| 905 | 0.38                    | 0.3544                  |                         | -1.886                 | 1.16                   |                        | -0.3737                | -0.4044          | -1.49            | 2.321            |
| 906 | -0.5844                 | -2.10E-11               | -0.3566                 |                        | -0.2544                | 0.4356                 | 0.04191                |                  | -1.395           | 2.017            |
| 907 | -0.5781                 | -0.1337                 |                         |                        | 0.4919                 |                        | -0.3818                |                  | -1.228           | 2.053            |
| 908 | -0.4117                 | 0.02266                 | -0.08398                | -0.5575                | 0.4483                 | -0.8317                | -0.3854                | -0.6961          | -0.7219          | 1.86             |
| 909 | -0.2719                 | 0.1125                  | -0.02414                | -1.438                 | 1.048                  | 0.05812                | -0.2656                | -0.6762          | -0.1921          | -0.3006          |
| 910 | -0.8738                 | 0.1906                  | -0.246                  | 1.441                  | 0.7162                 | -1.234                 | -0.07746               | -2.078           | -1.344           |                  |
| 911 |                         | 0.8502                  |                         | -0.8599                | -0.5641                |                        | 0.06215                | 0.2215           | -0.9743          | -0.7729          |
| 912 |                         | 0.02188                 |                         | 0.08176                | -0.1225                |                        | -0.2362                | 0.04313          | 0.3573           | -0.3212          |
| 913 | 0.0975                  | -0.4081                 | -2.405                  | -0.9782                | 0.2175                 | -1.433                 | -1.146                 | -0.1569          | -0.2627          | -0.6012          |
| 914 | 0.14                    | -0.07563                | -0.3123                 | -1.226                 | -0.09                  | 0.2                    | -0.6837                |                  | -0.2902          | -0.5988          |
| 915 | -0.4728                 | -0.4884                 |                         | -0.6386                | 1.247                  | -0.6928                | -0.4565                |                  | -0.273           | -0.8016          |
| 916 | -0.5817                 | -0.1173                 | 0.936                   | -0.6675                | 0.4483                 | -0.001719              | -0.7054                | -0.9261          | -0.4019          | -0.4305          |
| 917 | -0.92                   | -0.3556                 | -0.1223                 | -0.8957                | -0.19                  | -0.7                   | 0.006289               | -1.524           | -0.7102          | -0.5488          |
| 918 | -0.3422                 | -0.01781                | 0.3655                  | -0.1479                | 0.6678                 | -0.4822                | 0.6341                 | -1.287           | -0.7724          | -0.7409          |
| 919 | -0.8617                 | -1.197                  | -0.06398                | 0.4125                 | -0.1617                | 0.8883                 | -0.1454                | 0.07391          | -0.1319          | -0.03047         |
| 920 | -0.1476                 | -0.1432                 | -0.1398                 | -1.093                 | -0.4176                |                        | -0.1213                | 0.328            | -0.4778          | -0.3363          |
| 921 | 0.44                    | 0.6244                  | -1.572                  |                        | -2.41                  |                        | -0.05371               | 0.9656           | -2.99            | 1.011            |
| 922 | -0.7142                 | 0.08016                 |                         |                        | -0.8042                |                        | 0.7421                 |                  | -1.974           |                  |
| 923 | -0.7528                 | -0.08844                | -0.3551                 | -0.4886                | -1.773                 | 0.4372                 | 1.303                  | -0.9372          | -0.503           | -0.8616          |
| 924 | -0.09406                | 0.03031                 | -1.206                  | -0.4898                | -0.8041                |                        | 0.9722                 | -0.2784          | 0.1157           | -0.2028          |
| 925 | 0.07219                 | 0.3466                  | -1.17                   | -1.054                 | -0.2478                | -1.438                 | -0.2915                | -2.242           | -1.118           | -0.9666          |
| 926 | 0.5322                  | 0.8666                  | -7.81E-05               | -0.5236                | -1.218                 | 0.2222                 | 1.538                  | -0.9222          | -0.668           | -0.9966          |
| 927 | 0.2948                  | 1.239                   | -0.3775                 | -0.8709                | -0.1652                | -1.105                 | -0.2889                | -0.06957         | -0.005391        | 0.05605          |
| 928 | 5.87E-09                | -0.2456                 | -0.8923                 | -1.316                 | -0.42                  | -0.36                  | -0.2937                | -0.4044          | 0.2298           | -0.1487          |
| 929 | -0.02                   | 0.1744                  | -0.3223                 | -1.156                 | -1.73                  | -1.4                   | -0.8537                | -0.4544          | -0.6502          | -0.2888          |
| 930 | 0                       | 0.2044                  | 0.3977                  | -0.08574               | 0.17                   | -0.7                   | 0.006289               | -1.184           | -0.8202          | -0.5688          |
| 931 | -0.6475                 | 0.3969                  | 0.3302                  | -0.6332                | -1.438                 | -0.5775                | 0.3688                 | -1.772           | -0.2077          | -0.5963          |
| 932 | -0.01063                | 1.094                   | 1.267                   | 0.5136                 | 0.1394                 | 0.4794                 | -0.4543                | 0.645            | 1.269            | 0.5206           |
| 933 | -1.473                  | 0.4118                  | 0.5051                  | 0.2017                 | -0.8726                |                        | 0.5237                 | 0.003027         | 0.1272           | -0.6413          |
| 934 | -0.24                   | -0.7556                 | 0.007734                | -0.6757                | 0.1                    |                        | -0.2937                | 2.726            | 1.62             | 1.181            |
| 935 | -0.2674                 | 0.127                   | -0.1297                 | -1.293                 | -0.9474                | -0.06742               | -0.1411                | 1.278            | 1.192            | 1.084            |
| 936 | -0.2513                 | 0.09312                 | -0.06352                | -0.197                 | -0.4213                | -0.6613                | -0.595                 | -0.1356          | -0.6814          | -0.68            |

Table 1

|     | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|-----|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|     | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 937 | -0.2186                 | -0.04422                | -0.1809                 | -0.1843                | -0.4386                | -0.7786                | -0.5123                | -1.113           | -0.5988          | -0.7473          |
| 938 | -0.6184                 | 0.2759                  | -0.9507                 | -0.4642                | -0.05844               | 0.2016                 | -0.1321                | -1.753           | -1.979           | -2.207           |
| 939 | -0.575                  | -0.2806                 | -1.037                  | 0.1693                 | -0.005                 | 0.455                  | 0.437                  | -0.4394          | -1.325           | -1.554           |
| 940 | -0.59                   | 0.2344                  |                         | -0.8557                | -0.43                  | -0.05                  | -0.6437                |                  | -0.9802          |                  |
| 941 | -0.6                    | -0.2256                 | 0.1877                  | -0.04574               | 0.07                   | 0.18                   | -0.04371               | -0.04437         | -0.4002          | -0.5287          |
| 942 | -0.262                  | 0.2523                  | -0.8043                 | 0.9922                 | -0.222                 | 0.448                  | 0.7943                 | -0.8264          | -0.2422          | -1.561           |
| 943 | -0.3239                 | 0.2905                  | 0.3339                  | 1.07                   | -0.1439                | -0.2939                | 0.6224                 | -2.148           | -0.2841          | -0.3626          |
| 944 | -1.039                  | -0.9645                 | -0.7012                 | 0.1354                 | 1.661                  | 1.131                  | 0.2474                 | -0.5333          | -0.0791          | 0.4323           |
| 945 | -0.09773                | -0.1434                 | -0.98                   | -0.08348               | 1.612                  | 1.312                  | -0.1414                | -0.3521          | -0.3879          | -0.2565          |
| 946 | -0.59                   | -0.4056                 | -0.6523                 | 0.06426                | 1.46                   | 1.93                   | 0.3863                 | -0.4244          | -0.1202          | -0.2187          |
| 947 | -0.76                   | -1.266                  | -0.7123                 | -0.5257                | 0.02                   | 0.04                   | 1.476                  | 0.005625         | -1.28            | -1.249           |
| 948 | -0.045                  | -0.4006                 | -0.6373                 | -0.7607                | -0.185                 | 1.185                  | 0.2513                 | 0.2306           | -0.8652          | -2.444           |
| 949 | 0                       | 0.5244                  | -0.9523                 | -0.3157                | -0.3                   | 0.81                   |                        | -1.314           | -0.4702          | -0.9488          |
| 950 | -0.08891                | 0.5255                  | -0.8312                 | -0.2346                | -0.2389                | 0.9811                 | -0.02262               | -2.623           | -0.5691          | -1.068           |
| 951 | 0.1261                  | 0.2205                  | -0.6562                 | 0.4304                 | -0.2439                | 1.646                  | 0.8824                 |                  | 0.0859           | -0.5027          |
| 952 | -1.34                   | -1.106                  | -0.04227                | -0.1857                | -0.04                  | 1.19                   | -0.4337                | -0.5644          | 0.4198           | -0.4187          |
| 953 | -0.5256                 | 0.1387                  | -0.9379                 | -0.1061                | -0.3656                | 0.6944                 | -0.1793                | -0.53            | -1.076           | -1.264           |
| 954 | -0.095                  | -0.6606                 | 0.1827                  | -0.8107                | -0.885                 | 0.145                  | -0.4287                |                  | -1.215           | -1.114           |
| 955 | 0.005                   | 1.409                   |                         | -0.8507                | 0.225                  |                        | -2.869                 | 0.04063          | -1.715           | -0.8438          |
| 956 | -0.3                    | -0.2056                 | -0.09227                | -0.1057                | 0.98                   | -0.37                  | -0.8437                | -0.04437         | -0.8202          | -1.199           |
| 957 | -0.5328                 | -0.2184                 | -0.7551                 | 0.6314                 | -0.1928                | 0.6272                 | -0.3265                | 0.07281          | -0.253           | -0.6516          |
| 958 | -0.3839                 | 0.3105                  | -0.2962                 | -0.1696                | -0.6839                | 0.8861                 | -0.4376                | -0.3583          | -0.6641          | -0.7527          |
| 959 | -0.4638                 | 0.1206                  | -0.466                  | 0.7505                 | -0.2938                | 0.7662                 | -0.2575                | -0.4581          | -0.5139          | -0.7525          |
| 960 | -0.5241                 | -0.1497                 |                         | -0.009805              | -1.234                 | 0.3159                 | -0.7878                |                  | -0.8743          | -0.9328          |
| 961 | -0.68                   | 0.07438                 | 0.1677                  | 0.4643                 | -1.14                  | 0.29                   | -0.8337                |                  | -0.8302          | -1.189           |
| 962 | -0.1247                 | 0.4097                  | -0.157                  | 0.4296                 | 0.06531                | 0.4753                 | 0.001602               |                  | -0.2949          | -0.5834          |
| 963 | 0.1367                  | 0.6811                  | -0.9455                 | 0.261                  | -0.02328               | 1.037                  | -0.177                 | -0.2577          | -0.7035          | -0.852           |
| 964 | -0.02703                | 0.007344                |                         | 0.4672                 | -0.357                 | 0.233                  | -0.08074               |                  | -0.8672          | -0.8858          |
| 965 | -0.07875                | -0.5844                 |                         | 0.4755                 |                        | 0.8312                 | -1.432                 | 1.367            | -0.8489          | -0.5975          |
| 966 | -0.3206                 | 1.224                   | -1.173                  | 1.094                  | 0.03937                | 1.189                  | -0.004336              | 0.115            | -0.7908          | -0.8894          |
| 967 | -0.19                   | 0.4944                  | -0.6623                 | 0.8043                 | -0.17                  | 0.52                   |                        | -0.04437         | -0.3702          | -0.4187          |
| 968 | 0.003359                | 0.7877                  | -0.5889                 | 0.8376                 | 0.06336                | 0.6734                 | -0.1204                | -0.431           | -0.2668          | -0.2254          |
| 969 | -0.7044                 | 0.43                    | -0.3666                 | 0.6199                 | -0.6444                | 0.5356                 | -0.2581                | -0.3187          | -0.1646          | -0.6031          |
| 970 | -0.7641                 | 0.1502                  | -0.3164                 | 0.5801                 | -0.6741                | 0.8459                 | -0.4079                | -0.4985          | -0.8043          | -1.093           |
| 971 | 0.7239                  | 1.418                   | 0.6816                  | -0.3618                | 0.1139                 | -0.5261                |                        |                  | 0.1237           | -0.3848          |
| 972 | 0.6049                  | 1.369                   | 0.3326                  | -0.3909                | 0.3649                 | 0.1749                 | -0.2188                | -0.7495          | -0.08531         | -0.6339          |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 973  | 0.779                   | 0.8334                  | 0.03676                 | -0.3667                | 0.369                  | -0.171                 | 0.06531                | -1.115           | -0.01117         | -0.7797          |
| 974  | -0.01484                | 1.4                     |                         | -1.251                 | -0.2948                | -1.755                 | 0.1014                 | -1.499           | -1.205           | -0.5836          |
| 975  | 0.31                    | 1.594                   | -0.2923                 | 0.4843                 | -0.4                   | -1.42                  | -0.2537                | -2.854           | -0.7302          | -2.679           |
| 976  | -0.725                  | 0.3894                  | -0.6273                 | -0.8907                | -0.905                 | 0.045                  |                        |                  | -1.265           | -2.114           |
| 977  | -0.2813                 | 0.7131                  | -0.1735                 | -0.717                 | -0.6613                | 0.3487                 | -0.004961              | -0.005625        | -0.6814          | -1.37            |
| 978  | -0.2673                 | 0.01703                 |                         |                        | 0.5527                 | 0.1627                 | 0.1989                 | -0.3517          | -0.7675          | -0.2061          |
| 979  | 0.795                   | 1.649                   | -1.717                  | -0.9507                | -0.475                 | -0.105                 | -0.7687                | -0.7994          | -1.365           | -1.034           |
| 980  | -0.6731                 |                         | 0.1846                  | -0.9189                | -0.9631                |                        | -0.06684               | 1.323            | -0.05332         | -0.001875        |
| 981  | 0.73                    | 0.3644                  | -0.8923                 | -0.2957                | -0.36                  |                        | 0.04629                | 0.03563          | -0.3002          | -0.5587          |
| 982  |                         | -0.06637                |                         | -0.7065                | -0.1107                |                        | -0.1845                | -0.2351          | -0.6909          | -0.009492        |
| 983  | 0.01                    | 0.7344                  | -0.4123                 | -0.5357                | -0.29                  | 0.45                   | 0.5663                 | 1.156            | -1.15            | 0.7613           |
| 984  | -0.2441                 | -0.09969                |                         | 0.3102                 | -0.1341                | 1.136                  | 0.3222                 | 0.5916           | 0.1657           | 0.8372           |
| 985  | 0.4316                  | -0.2941                 |                         | 0.4558                 | -0.3484                |                        | 0.2379                 | 1.347            | 0.3914           | 1.083            |
| 986  | 0.2159                  | 0.0002344               | -0.9564                 | -0.5399                | -0.4441                | 1.186                  | 1.422                  | -0.3485          | 0.3757           | -0.04289         |
| 987  | 0.0125                  | -0.2931                 | -0.2398                 | -1.253                 | -0.6675                |                        | 1.859                  | -0.3719          | 0.5023           | -0.1862          |
| 988  | 0.345                   | -0.3406                 | -0.5073                 | -0.7407                | -0.955                 | 0.215                  | 0.1913                 | 0.000625         | 0.2748           | 0.5963           |
| 989  | -0.18                   | -0.02562                | -0.3423                 | -0.5457                | 0.25                   | 1.71                   | -0.07371               | -0.4144          | -0.1402          | 0.1313           |
| 990  | -0.1875                 | 0.2969                  | -1.05                   | -1.163                 |                        | 1.012                  | 0.8688                 | -0.6419          | -0.2977          | -0.1963          |
| 991  | -0.3087                 | 0.1757                  |                         |                        | -1.379                 | -0.1487                | 0.7576                 | 0.4669           | -0.6889          | -0.2174          |
| 992  | 0.3247                  | 0.1291                  | -2.478                  | -0.9811                | -0.5353                | 0.5847                 | -0.479                 | 1.41             | -0.6655          | -0.2241          |
| 993  | 0.1513                  | 0.07563                 |                         | -0.5645                | -0.2588                | 2.081                  | -0.1425                | 1.727            | -0.5989          | -0.1975          |
| 994  | -0.24                   | 0.004375                | 0.4677                  | -0.6057                | -0.58                  |                        | -0.2637                | -0.3544          | -0.1402          | -0.8387          |
| 995  | -0.125                  | 0.1594                  | 0.2727                  | -0.08074               | -0.155                 | 0.255                  | -0.8287                | -0.1194          | 1.365            | 0.7463           |
| 996  | 0.2125                  | 0.07687                 | -0.2898                 | 0.7768                 | 0.9625                 | 1.402                  | 1.409                  | -0.2519          | 0.4823           | 0.6237           |
| 997  | -0.522                  | -0.5177                 | -0.7543                 | -0.7378                | -0.262                 | 0.548                  | -0.07574               | 0.5836           | -0.1322          | -0.2008          |
| 998  | 0.1                     | 0.3744                  | 0.05773                 | 0.4843                 | 0                      | -0.03                  | -0.4437                | -0.3544          |                  | -0.07875         |
| 999  | 0.6856                  | 0.59                    |                         | 0.04988                | -0.4144                | 0.01562                | -0.02809               |                  | -0.4746          | -0.04312         |
| 1000 | -0.34                   | 0.1944                  | -0.5223                 | -0.2357                | -0.08                  | -0.23                  | -0.5337                | -0.1044          | 0.3098           | 0.2613           |
| 1001 | -0.2752                 | 0.5792                  | -0.9175                 | -0.08094               | 0.2948                 | -0.8552                | 0.3711                 | -0.7496          | 0.2546           | -0.4739          |
| 1002 | 0.1502                  | 0.6545                  | -0.04211                |                        |                        | 0.4202                 | 1.546                  | 0.2158           | 0.009961         | 0.7114           |
| 1003 | -0.07586                | 1.119                   | -1.098                  | -0.5416                | 0.08414                |                        |                        | 0.8698           | 0.7039           | 0.3354           |
| 1004 | 0.015                   | 1.059                   | -1.007                  | -0.1307                | 0.005                  | 0.655                  | 1.681                  | 0.4606           | 0.3048           | 0.1062           |
| 1005 | -0.1703                 | 1.004                   |                         | -0.9861                | -0.6403                | -0.1603                | 1.156                  | 0.4453           | -0.8205          |                  |
| 1006 | 0.56                    | 1.234                   |                         | -0.4257                |                        |                        | 1.376                  | -0.4944          | -0.6602          | -0.4888          |
| 1007 | 0.06                    | 0.3044                  |                         | -0.6657                | -0.2                   | 0.09                   | 0.006289               | -1.574           | -1.55            |                  |
| 1008 | -0.4675                 | -0.2731                 | -0.1298                 | -0.1932                | 0.3525                 | 0.8125                 | -0.08121               |                  | -1.888           | -1.326           |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1009 | -0.1475                 | 0.4369                  |                         | -0.4932                | 0.3025                 | 0.4325                 | -0.3212                | 0.6681           | -1.218           | -1.726           |
| 1010 | -0.4875                 | 0.1569                  | -2.06                   | 0.1268                 | 1.012                  | 0.3625                 | 0.5688                 | -0.9919          | -1.138           | -1.186           |
| 1011 | -0.09                   | 0.1044                  | -1.572                  | -0.6757                | 0.58                   | -3.36E-08              | -0.5437                |                  | -0.6802          | -1.259           |
| 1012 | -0.22                   | 0.8644                  | -1.342                  | 0.05426                | 0                      | 0.59                   | 0.1463                 | -0.6444          | -1.45            | -0.8187          |
| 1013 | -0.2155                 | 0.2889                  | -0.1077                 | -0.8312                | -0.005469              | 0.9445                 | 0.0008203              |                  | -1.446           | -1.614           |
| 1014 |                         | 0.9045                  | -1.592                  | -0.2056                | -0.4298                |                        | -0.6236                | -0.4442          | -0.69            | 1.351            |
| 1015 | -0.9706                 | -0.09625                | -1.603                  | -0.2964                | -0.5006                |                        | 0.2057                 | 1.525            | 0.3492           | -0.08937         |
| 1016 | -0.3424                 | -0.308                  |                         | -0.5082                | -0.7324                |                        |                        | 2.103            | -0.2526          | -0.5712          |
| 1017 | -0.76                   | -0.1656                 |                         | -0.1557                | -0.27                  | -1.46                  |                        | -0.6044          | 0.6998           | 0.1912           |
| 1018 | -0.29                   | -0.5456                 | 0.2677                  | 0.1443                 | 0                      |                        | 0.4663                 | 0.3856           | 0.0798           | 0.09125          |
| 1019 | -0.6008                 | 0.06355                 |                         | -0.5466                | -0.3508                | -1.541                 | 0.7455                 | -1.585           | -0.611           | -2.51            |
| 1020 | -0.2                    | 0.5644                  |                         | -0.5657                | -0.37                  | -0.78                  | 0.3363                 | -1.404           | -0.8502          | -0.5288          |
| 1021 | 0.2641                  | 0.008437                | -0.7482                 | -0.3017                | 0.09406                | -0.01594               | 0.2604                 | -0.2403          | -0.4661          | -0.2647          |
| 1022 | 0.36                    | -0.8056                 |                         | -0.4257                | -0.64                  | -4.05E-08              | 0.01629                |                  | -0.7502          | -0.06875         |
| 1023 | 2.19E-08                | 0.9244                  |                         | -0.3657                | 0.51                   |                        | 0.4363                 | 0.07563          | 0.5698           | -0.3287          |
| 1024 | 0.005781                | 0.1002                  | -0.9165                 | 0.56                   | -0.2442                | -0.7242                | -0.2079                | 1.161            | -0.7244          | -0.323           |
| 1025 | -0.015                  | -0.08062                | 0.1227                  | -0.2707                | -0.665                 | -0.165                 | 0.3613                 |                  | 0.4948           | 0.6762           |
| 1026 | -0.6598                 | -0.2755                 |                         |                        | -0.1298                |                        | 0.01645                | 0.2458           | 0.32             | 0.1514           |
| 1027 | -0.2056                 | 0.4287                  | -0.2979                 | 0.8086                 | -0.7256                |                        | 0.6507                 | -0.64            | 0.6042           | 0.005625         |
| 1028 | 0.128                   | -0.4577                 |                         | 0.2322                 | -0.242                 | -0.942                 | -0.8957                |                  | -0.5022          | -0.4208          |
| 1029 | -1.29                   | -0.7756                 | -0.3623                 | -0.5157                | -0.78                  | -0.55                  | -1.004                 |                  | 0.0898           | -0.4788          |
| 1030 | -0.8771                 | 0.03727                 |                         | -0.7929                | 0.08289                | 0.9229                 | 0.3492                 | -0.4715          | -0.8073          | -1.206           |
| 1031 | -0.5269                 | 0.1275                  | -0.1791                 | -0.4226                | -0.8769                | 0.7131                 | -0.4306                | -0.3112          | -0.4471          | -1.216           |
| 1032 | -0.35                   | -0.005625               | 0.3577                  | 0.3043                 | -0.03                  | -0.71                  | -0.8537                | -1.524           | 0.1798           | -0.5187          |
| 1033 | 0.0234                  | 0.1978                  | -0.1289                 | -0.002344              | -0.1066                | -0.6266                | 0.1197                 | -0.01098         | -0.2568          | -0.4154          |
| 1034 | -0.3348                 | -0.1505                 | -1.147                  | 0.2194                 | 0.3252                 | -0.5748                | -0.6086                | -0.4092          | -0.245           | -0.2836          |
| 1035 | 4.19E-11                | 0.06438                 | -0.2923                 | 0.4043                 | 0.29                   |                        | -0.04371               | 0.05563          | 0.0498           | -0.6688          |
| 1036 | -0.3639                 | 0.0004688               |                         | -0.05965               | -0.4539                | -0.1439                | -0.3276                | -0.5283          | -0.8441          |                  |
| 1037 | -0.4306                 | 0.1337                  | -0.5629                 | 0.01363                | -0.6006                | -0.07063               | -0.6243                | -0.595           | -0.7608          | 0.3406           |
| 1038 | 0.03164                 | -0.194                  |                         | -1.624                 | 0.08164                | 1.292                  | -0.4421                |                  | -1.009           | 1.973            |
| 1039 | 0.26                    | 1.124                   | -0.2223                 | -0.1057                |                        | 0.62                   | -0.1637                | -1.044           | -0.7902          | -3.159           |
| 1040 | 0.2575                  | 0.1519                  | -0.8848                 | -0.6382                | -1.332                 | 0.7975                 | -0.3262                | -0.4769          | -1.183           |                  |
| 1041 | -0.085                  | 0.2694                  | 0.04273                 | 0.009258               | 0.005                  | 0.085                  | -0.6587                | -0.9494          | -0.6752          | -0.6138          |
| 1042 | 0.2175                  | 0.7219                  |                         | 0.3718                 | 0.3675                 | 0.6275                 | -0.7562                |                  | -0.5527          | -1.301           |
| 1043 | -0.1565                 | -0.05211                |                         | -0.002227              | -0.2565                | -0.8465                |                        | 0.4791           | 0.8333           | 0.2748           |
| 1044 | 0                       | 0.6944                  | -0.7123                 | -0.5557                | -0.24                  | 1.06                   | -0.2737                | 0.2056           | -0.6502          | -0.8588          |



Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1045 | 0.2025                  | 0.1869                  | -0.3898                 | -0.9432                | -1.377                 | 0.0125                 | 0.2788                 | -0.1419          | -0.1077          | -0.4662          |
| 1046 | 0.253                   | 0.5074                  | -0.4992                 | -1.463                 |                        | 0.233                  | -0.5407                |                  | -1.927           | -2.136           |
| 1047 | -0.2373                 | 0.4471                  | 0.1005                  | -0.693                 | -0.6673                | 0.4127                 | -0.371                 | 0.2584           | -0.6075          | -1.116           |
| 1048 | -0.6295                 | -0.2951                 | -0.4717                 | -1.505                 | -1.249                 | 0.2205                 | -0.8132                | -1.304           | -0.8396          | -1.468           |
| 1049 | 0.07574                 | -0.4499                 | 0.003477                | -2.09                  | -1.654                 | 0.08574                | -0.648                 |                  | -0.004453        | -1.203           |
| 1050 | -0.7173                 | 0.01711                 | -0.5495                 | -0.513                 | -0.2773                | 0.1227                 | -0.781                 | 0.4084           | -0.9375          | -1.166           |
| 1051 | -0.2856                 | 0.04875                 |                         | -0.6814                | -0.2256                | 0.004375               | -0.08934               | 0                | -0.7658          | -0.9444          |
| 1052 | -0.4316                 | 0.1727                  | -0.4339                 | -0.3874                | 0.04836                | -0.02164               | 0.1146                 | 0.704            | 0.3782           | 0.3096           |
| 1053 | -0.265                  | 0.09937                 | -0.9073                 | 0.009258               | -0.195                 | -0.005                 |                        | -0.1294          | -0.5252          | -0.8138          |
| 1054 | -0.2633                 | 0.5611                  |                         | 0.1009                 | -0.3433                | -0.3333                | 0.593                  | 0.4223           | -0.5735          | -0.7521          |
| 1055 | -0.7087                 | -0.08437                | 0.249                   | -0.08449               | -0.3188                | -0.3288                | -0.04246               | -0.2831          | 0.3211           | 0.0925           |
| 1056 | -0.2783                 | 0.3861                  | -0.5505                 | 0.346                  | 0.2317                 | -0.04828               | -1.162                 | -0.5427          | -0.5185          | -1.497           |
| 1057 | 0.5875                  | -0.1181                 | 0.005234                | -1.088                 | 0.8875                 | 1.317                  | -0.1662                |                  | -1.153           |                  |
| 1058 |                         | 0.3806                  | -0.316                  | -0.4395                |                        | -0.08375               | -0.09746               | -0.4781          | -1.334           |                  |
| 1059 | -0.35                   | 0.8344                  | -0.6923                 | -0.4357                | -0.59                  | 0.48                   | -0.1037                | -0.1544          | -1.23            | -1.819           |
| 1060 | -0.2297                 | 0.3747                  | -0.182                  | -0.9154                | -0.7197                | -0.009688              | -0.6934                |                  | -1.22            | -1.398           |
| 1061 | -0.3769                 | 0.1775                  | -0.2591                 | 0.2231                 | 0.2231                 | -0.03688               | -0.4406                |                  | -0.9671          | -1.106           |
| 1062 | -0.5806                 | -0.3763                 | -0.9129                 | -0.3264                | -0.04063               | 0.1194                 | -0.4843                | -0.595           | -0.7208          | -1.789           |
| 1063 | -0.45                   | 0.5544                  | -1.272                  | -0.5857                | -0.18                  | 0                      | -0.5737                | -0.08437         | -0.9502          | -1.519           |
| 1064 | -0.515                  | -0.7106                 | 0.002734                | -0.4007                | -0.835                 | -0.555                 | -0.8387                | -1.159           | -0.9452          | -1.084           |
| 1065 | -0.89                   | 0.1944                  | -0.1823                 | -0.8957                | -0.68                  | 0.18                   | -0.4637                | 0.4756           | -0.7802          | -0.9788          |
| 1066 | -0.2556                 | 0.1288                  | -0.1879                 | -0.7014                | -0.7056                | 0.3644                 | -0.7293                | -0.34            | -1.116           | -1.444           |
| 1067 | -0.1579                 | -0.1235                 | -0.05016                | -0.09363               | 0.1421                 | 0.3421                 | -0.6616                |                  | 0.2219           | -0.3366          |
| 1068 | 0.3456                  | 0.25                    | -0.5666                 | -1.11                  | -0.2844                | 1.266                  | -0.8581                | -0.4887          | -1.085           | -0.1631          |
| 1069 | 0                       | -0.01562                | -1.082                  | -0.2257                | -0.15                  | 0.02                   | -0.7537                | -0.2344          | -0.9102          | -0.6688          |
| 1070 | -0.03063                | 0.3537                  | -0.3629                 | -0.4964                | -0.4206                | -0.1906                | -0.5543                | 0.895            | -0.09082         | 1.281            |
| 1071 | 0.315                   | 0.05938                 | -0.2973                 | -0.3907                | -0.135                 |                        | -0.9787                |                  | -0.7852          | -0.03375         |
| 1072 | 0.364                   | -1.392                  | 0.1317                  |                        | -0.08602               | 0.384                  | -0.8097                | 0.1896           | -0.6862          | -1.825           |
| 1073 | -0.03375                | 0.03063                 | -1.536                  | -0.1795                | -0.4238                | -0.5638                |                        | 0.7719           | 0.6961           | -0.2925          |
| 1074 | -0.09266                | 0.1917                  | -0.5049                 | 0.6116                 | 0.6573                 | -0.3727                | -0.4464                | -0.937           | -0.2229          | -0.9014          |
| 1075 | -0.02402                | 0.05035                 |                         | 0.1902                 | -0.144                 | -0.414                 | 0.05227                | -0.2384          | 0.6858           | 0.3572           |
| 1076 | -0.2278                 | -0.1734                 | -7.81E-05               | 1.316                  | 0.2322                 | -0.08781               | -0.6615                | -0.5322          | -0.838           | -0.8366          |
| 1077 | -0.4262                 | 0.4681                  | -2.039                  | -2.222                 | -1.566                 | 0.7437                 | -0.3                   | 0.2794           | -1.526           | -1.785           |
| 1078 | -0.1925                 | 0.1819                  | 0.2752                  | -0.1482                | -0.0825                | -1.623                 | -0.2162                | 0.3531           | -0.5927          | -0.8312          |
| 1079 | -0.07309                | -0.2587                 |                         | -0.1288                | -0.3131                | 0.07691                | -0.006797              | -0.1675          | 0.006719         |                  |
| 1080 | 0.1011                  | 0.5355                  | -0.01117                | -1.595                 | -0.02891               | -1.519                 | 0.3574                 | -0.02328         | -0.8091          |                  |

Table 1

|      | NORWAY 39-AF | NORWAY 39-BE | NORWAY 15-AF | STANFORD 17 | STANFORD 35 | NORWAY 14-AF | NORWAY 14-BE | NORMAL  | NORMAL    | NORMAL   | NORMAL |
|------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|---------|-----------|----------|--------|
|      | ARRY27X      | ARRY26X      | ARRY47X      | ARRY49X     | ARRY48X     | ARRY5X       | ARRY4X       | ARRY6X  | ARRY8X    | ARRY7X   |        |
|      | 1            | 1            | 1            | 1           | 1           | 1            | 1            | 1       | 1         | 1        | 1      |
| 1081 | 0.01785      | -0.04777     | 0.2456       | 0.002109    | -0.09215    | 0.3379       | 0.2641       | 0.2435  | 0.007656  | -0.6509  |        |
| 1082 | -0.19        | 0.07438      | 0.7677       | -0.5557     | -0.87       | 0.16         | 0.5063       | -0.9344 | -0.3202   | 0.01125  |        |
| 1083 | 0.3228       | -0.3428      |              | -0.2429     | -0.6672     | -1.417       | -0.4509      | 0.9884  | 0.002617  | -0.2059  |        |
| 1084 | -0.4125      | -0.2181      | -1.175       | 0.7718      | 0.2175      | -0.1925      | -0.8762      | 1.383   | 1.197     | 0.8188   |        |
| 1085 | 0.3631       | 0.0575       |              | 0.3074      | -0.05688    |              | 0.3094       | 0.3988  | 0.5929    | 0.6144   |        |
| 1086 | -0.4475      | -0.02312     | -0.9298      | -0.7132     | -0.4475     | 0.6925       | 2.289        | -0.1019 | -1.308    | -0.6962  |        |
| 1087 | 0.05         | 0.1944       | 2.058        | 0.8943      | -0.56       | -0.08        | -1.144       | -0.8644 | -0.5602   | -3.549   |        |
| 1088 | 0.3978       | 0.3722       |              | 0.6621      |             | -0.4022      | -0.6959      | -2.677  | -1.172    | -2.401   |        |
| 1089 | 0.09617      | 0.02055      |              | -0.7996     | -0.7138     | 0.6562       | -0.7775      |         | -0.414    |          |        |
| 1090 | -0.19        | 0.1444       | 0.3877       | 0.6143      | -0.12       | 0.09         | -0.1337      | -1.594  | -0.1502   | -0.5487  |        |
| 1091 | -0.6         | 0.5444       |              | 1.344       | 0.5         | -0.72        | -0.4937      |         | -0.3802   | -0.8088  |        |
| 1092 | -0.13        | 0.1144       | -1.232       | -0.1057     | -0.18       | 0.2          | -0.5037      | -0.2644 | -0.8702   | -0.6387  |        |
| 1093 | -0.2027      | 0.1117       |              | 0.3616      | -0.8427     | -0.9527      | -0.1964      | 0.423   | -1.303    |          |        |
| 1094 | 0.3512       | 0.01555      | -0.2011      | 0.2254      | -0.5788     | -0.8888      | -0.1825      | -1.343  | -0.539    | -0.8576  |        |
| 1095 | -0.1044      | -2.56E-11    | -0.1966      | -0.03012    | -0.7744     | -1.084       | -0.5281      | -0.4187 | -0.7146   | -0.7131  |        |
| 1096 | 0.2613       | 0.07563      | 0.699        | -0.06449    | -0.6488     | -0.05875     | -0.7925      | -0.8831 | -0.3489   | -1.197   |        |
| 1097 | -0.63        | 0.4744       | -1.042       | -0.4957     | -1.18       | -0.61        | -0.05371     | -0.5344 | 0.2798    | -0.03875 |        |
| 1098 | -0.4178      | 0.1866       | -0.5301      | 0.3864      | -0.1678     |              | -0.07152     | 0.3478  | -0.528    | -0.7466  |        |
| 1099 | -0.3966      | 0.007734     |              | 0.05762     | -0.3166     | -0.6866      | -0.5704      | 0.509   | -1.047    | -1.035   |        |
| 1100 | -0.515       | 0.2594       | -1.087       | -0.3707     | -0.685      | -0.075       | -0.8287      | 0.05062 | -0.7252   | -0.4438  |        |
| 1101 | -0.575       | -0.5906      | -0.1473      | -0.2607     | -0.165      | -0.735       | -0.3387      |         | 0.2548    | -0.9837  |        |
| 1102 | -0.08281     | -0.1784      | -0.2151      | 0.7214      | 0.1372      | 0.3472       | 0.1335       | 0.1228  | 0.657     | 0.3984   |        |
| 1103 | 0            | 0.3444       |              | -0.1657     | 0.09        | -0.83        | -1.344       |         | -0.6302   |          |        |
| 1104 | -0.07035     | -0.416       | 0.2274       | 0.4839      | -0.3404     | 0.1296       | -0.09406     | -1.415  | 0.009453  | -0.3091  |        |
| 1105 | -1.248       | -1.043       |              | -2.143      | 0.2024      | 0.3424       | 0.02871      | -0.862  | -1.918    |          |        |
| 1106 | 0.1895       | 0.5238       |              | -1.206      | -0.7505     | 0.8195       | 0.8957       | 0.9251  | 0.1093    | -0.2793  |        |
| 1107 | 0.165        | -0.2806      | -0.06727     |             | -2.755      | 0.985        | -0.8287      | 1.181   | -0.8452   | 0.5062   |        |
| 1108 | 0.1581       | -0.2875      | 0.4259       | -0.4476     | -0.4419     |              | -0.4656      | 1.934   | -0.9721   | -0.1006  |        |
| 1109 | 0.34         | 0.09438      | -0.9623      | -1.176      | -1.12       | 0.45         | -0.4737      | 0.2956  | -0.4202   | -0.1087  |        |
| 1110 | -0.83        | -0.4256      | 0.2977       | -1.886      | -1.15       | 1.3          | -0.3837      |         | -0.1602   | -0.5988  |        |
| 1111 | -0.6339      | -0.9095      | 0.06383      | -1.25       | -1.364      | -0.3939      | -0.4376      |         | -0.3841   | -1.523   |        |
| 1112 | -0.3878      | -0.7834      | -0.5501      | -0.2036     | -1.968      |              | 0.1085       |         | -0.228    | 0.05344  |        |
| 1113 | -0.8125      | -0.5181      |              |             | -1.063      | -0.5925      | -0.2462      | 0.6131  | -0.1727   | 1.859    |        |
| 1114 | -0.6995      | -0.3651      | -0.2117      | -1.005      | -1.249      | -0.3895      | -0.1632      | -0.1438 | -0.09965  | 1.842    |        |
| 1115 | -0.6995      | 0.4849       |              | -0.2552     | -0.8195     | -0.3995      | 0.4668       | -0.2938 | 0.3304    | 0.2318   |        |
| 1116 | -0.312       | -0.1477      | 0.2357       | -0.4578     | -0.602      | -0.452       | 0.5343       | -0.5564 | -0.002227 | -0.09078 |        |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1117 | -0.6739                 | 0.02051                 | 0.2239                  | -1.39                  | -1.464                 | -0.6539                | 0.1724                 | -0.8982          | -0.5841          | -0.8826          |
| 1118 | 0.02281                 | 0.03719                 | 0.3405                  | -1.623                 | -1.917                 | -0.2272                | -0.2209                | -0.4416          | -0.3274          | -0.3359          |
| 1119 | 0.2025                  | -0.5131                 | -0.3098                 | -1.393                 | -2.098                 | 0.2925                 | -0.04121               | -0.5819          | 0.1023           | -0.5562          |
| 1120 | 0.35                    | -0.3156                 | 0.3777                  | -0.8857                | -2.9                   | 0.01                   | 0.6563                 |                  | -0.2302          | 0.5813           |
| 1121 | -0.3371                 | -0.2727                 | -0.4994                 | -2.253                 | -1.477                 | 0.5929                 | -0.008203              | -0.3915          | -1.037           | -1.636           |
| 1122 | 0.215                   | 0.2994                  | 0.1027                  | -2.651                 | -0.645                 |                        | -0.5787                |                  | -1.715           | -0.9537          |
| 1123 | 0.5986                  | -0.297                  | -1.944                  | -1.417                 | -1.711                 | -0.3914                | 0.6249                 | 0.5142           | -0.8816          | -0.03016         |
| 1124 | -0.5577                 | -1.413                  | 7.81E-05                | -0.8834                | -2.768                 | 0.7923                 | -0.4514                | -0.722           | 0.6021           | -0.1764          |
| 1125 | -0.009688               | -0.7153                 | -1.292                  | -0.7454                | -0.8097                |                        | 0.4366                 | -0.4641          | 0.9301           | -0.008438        |
| 1126 | -0.4141                 | -0.3097                 | 0.05367                 | -1.73                  | -2.534                 |                        | 0.4322                 | 0.3116           | -0.3043          | -0.3028          |
| 1127 | -0.2091                 | -0.4548                 | 0.6486                  | -0.6649                | -1.539                 |                        | 0.03715                | -0.5835          | 0.2707           | -0.2079          |
| 1128 | -0.7913                 | -1.157                  | -0.2635                 | -1.077                 | -1.681                 | 0.2487                 | -0.695                 | -1.116           | 0.1386           | -0.51            |
| 1129 | -0.1639                 | -0.4295                 | 0.003828                | -1.18                  | -1.604                 |                        | 0.09238                | -0.9883          | -0.4441          | -0.7627          |
| 1130 | 0.365                   | 0.1594                  | -1.687                  | -1.581                 | -2.525                 |                        | -0.2787                | -0.5594          | -0.2552          | -0.4238          |
| 1131 |                         | -1.40E-11               |                         | -0.9601                | -1.694                 | -1.264                 | -0.8381                | 0.5113           | -0.1346          | -0.3131          |
| 1132 | -0.29                   | -0.4756                 | -0.09227                | -0.8257                | -0.93                  | -0.92                  | -1.244                 | 0.4556           | 0.3898           | 0.01125          |
| 1133 | -0.8101                 | -0.7157                 | -0.3376                 | -0.5459                | -1.4                   | -0.07012               | -0.05383               |                  | 0.6297           | 0.2611           |
| 1134 | -1.009                  | -1.075                  | 0.6894                  | -1.179                 | -1.179                 | 0.1206                 | -0.5131                | 0.07625          | 0.8804           | 0.2519           |
| 1135 | -0.6007                 | -0.1063                 | -0.513                  | -0.7164                | -0.6707                | 0.6293                 | 0.1556                 | -0.08508         | -0.0008984       | -0.3595          |
| 1136 | 0.3922                  | 0.05656                 | -7.81E-05               | -1.154                 | -1.618                 | -0.5678                | 0.2885                 | 0.06781          | -0.438           |                  |
| 1137 | -0.31                   | -0.3556                 | 0.01773                 | -0.7757                | -0.97                  | -0.07                  | 0.3463                 | 0.2856           | 0.0598           | -0.3087          |
| 1138 | -0.2714                 | -0.437                  | -0.08367                | -0.08715               | -0.6414                | -0.05141               |                        | -1.676           | -0.2416          | -0.7002          |
| 1139 | -0.5378                 | 0.08656                 | -7.81E-05               | -1.034                 | -1.888                 | -0.1478                | -0.2215                | -0.298           | -0.298           | -0.5266          |
| 1140 | -0.6053                 | -0.7409                 | 0.4424                  | -0.6311                | -1.675                 | 0.2347                 | 0.421                  | -0.8597          | -0.2755          | -0.2141          |
| 1141 | -0.07266                | -0.4083                 | -0.02492                |                        | -1.393                 |                        |                        | -1.997           | -0.5429          | -1.331           |
| 1142 | -0.1875                 | -0.1431                 | 0.1402                  | -1.353                 | -1.498                 | 0.7325                 | -0.1912                | -1.172           | -0.2377          | -0.6063          |
| 1143 | 0.0925                  | -0.08313                | -0.4698                 | -1.533                 | -1.978                 | -0.1975                | 0.4988                 | -0.1119          | -0.2377          | -0.05625         |
| 1144 | -0.415                  | -0.4906                 | 0.1827                  | -1.651                 | -1.215                 | -0.055                 | -0.1487                |                  | 0.1048           | 0.1863           |
| 1145 | -0.33                   | 0.1044                  | 0.6377                  | -0.4257                | -0.23                  |                        | -0.6937                | -0.7944          | -0.1702          | -0.3888          |
| 1146 | 0.7903                  | -0.9453                 | 0.438                   | -1.485                 | -1.51                  | -1.55                  | -0.7134                | 0.9559           | 0.5301           | 0.06156          |
| 1147 | 0.1                     | -0.1656                 | 0.2777                  | -0.2657                | -0.82                  | 0.11                   | -0.4537                | 0.3356           | -0.4602          | -1.639           |
| 1148 | -0.825                  | -0.2606                 | 0.1827                  | -0.8507                | -0.575                 | -0.385                 | -0.8887                | -0.1794          | 0.1648           | -0.05375         |
| 1149 | 0.31                    | -0.3456                 | -0.1923                 | -0.6457                | -0.28                  | -0.14                  | 0.06629                | -1.024           | -0.2102          | -0.05875         |
| 1150 | -1.255                  | -0.8505                 | -0.8971                 |                        | -1.735                 |                        | -0.4986                | 0.2108           | -1.125           | -0.9336          |
| 1151 | -0.53                   | -0.4856                 | 1.628                   | -1.976                 | -1.54                  |                        | 0.2063                 |                  | -0.3702          | -1.039           |
| 1152 | -0.4206                 |                         | 1.497                   | -0.7364                | -1.841                 |                        | 0.05566                | -0.875           | -0.3808          | -0.2094          |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1153 | -0.6269                 | -0.1225                 | 2.521                   | 0.007383               | -1.197                 |                        | -0.4206                | -1.611           | -1.707           |                  |
| 1154 | 0.1166                  | 0.5109                  | 0.0743                  | -0.09918               |                        |                        | 0.5829                 | -0.5778          | -0.1636          | -1.152           |
| 1155 | -0.2238                 | 0.6106                  | -2.556                  | -1.269                 | -0.2238                | -0.7838                | 0.6125                 | -0.6281          | -0.8539          | -0.0925          |
| 1156 | 0.725                   | 0.5794                  | -1.607                  | -0.4307                | -0.985                 | 0.445                  | 0.6313                 | 0.4506           | -0.1252          | 0.6963           |
| 1157 | 0.005                   | 0.4794                  | -2.047                  | -1.401                 | -1.125                 | -0.155                 | 0.4213                 | -1.439           | -1.385           | -0.08375         |
| 1158 | 0.06125                 | 0.7756                  | -0.451                  | -1.804                 | -0.7288                | -0.7988                | 0.9775                 | -0.2931          | -0.8089          | -0.5975          |
| 1159 | -0.46                   | -1.226                  |                         |                        | -2.33                  |                        | 1.136                  | 0.4056           | 0.5298           | 0.8813           |
| 1160 | -0.28                   | -0.7956                 |                         | -0.7057                | -0.51                  |                        | -0.2137                | -0.8044          | 0.4798           | 0.4512           |
| 1161 | -0.7713                 | -0.5969                 | -0.2135                 | -0.207                 | -1.381                 | -0.1613                | -0.04496               | -0.6156          | 0.01855          | 0.41             |
| 1162 | 0.7962                  | 0.3206                  | -0.136                  | -1.009                 | -1.074                 | 2.296                  | -0.7175                | 0.5619           | -0.3339          | -0.3425          |
| 1163 | -1.08                   | 0.1744                  |                         | -1.746                 | -1.49                  | 0.61                   | -0.06371               | 0.4356           | -0.2102          | 0.2512           |
| 1164 | -0.4989                 | -0.1045                 |                         | -0.3946                | -0.8989                | 1.201                  | -0.6326                | -0.4133          | -1.519           |                  |
| 1165 | -0.5398                 | -0.01539                | -0.792                  |                        | -1.24                  | 0.2802                 | -0.3235                | -0.004141        | -0.65            | 0.01148          |
| 1166 | -0.5638                 | -0.07937                | -0.276                  | -0.2895                | -2.114                 | 0.8862                 | -0.6275                | 0.9819           | 0.1761           | -0.2725          |
| 1167 | 0.22                    | 0.9344                  | 0.7077                  | 1.004                  | -0.26                  | -0.21                  | -0.6737                | -0.7844          | -0.2802          | -0.5988          |
| 1168 | -0.03125                | 0.7531                  |                         | 0.833                  | -0.3813                | 0.2087                 | -0.455                 | -1.126           | -0.3114          | -0.65            |
| 1169 | -0.0525                 | -0.3181                 |                         | -0.8982                |                        |                        | -1.116                 | 0.6131           | 0.0673           | -1.081           |
| 1170 | -0.21                   | 0.07437                 | -0.4923                 | -0.5257                | -0.28                  | -0.47                  | -0.3537                | 0.1056           | 0.3398           | -0.7588          |
| 1171 | -0.22                   | 0.5444                  | -0.3623                 | 0.6943                 | 0                      | 0.37                   | 0.5863                 | -0.3944          | -0.1802          | 0.3213           |
| 1172 | 0.5093                  | 0.5137                  | 1.607                   | 1.584                  | 0.9393                 | -0.4107                | -0.1044                | -0.8351          | -0.0008984       | -0.6995          |
| 1173 | 0.485                   | 0.5694                  |                         | 0.3693                 | 0.175                  | -1.265                 | -0.3187                | 0.1706           | -0.1952          |                  |
| 1174 | 0.24                    | -0.05562                | 0.8677                  | -0.3457                | -0.78                  | -2.3                   | -0.1137                | 0.2856           | -0.5502          |                  |
| 1175 |                         | 0.7872                  | -0.6994                 | 0.02711                | -0.5071                | 0.3529                 | 1.859                  | 0.2385           | -2.917           | 0.3141           |
| 1176 | 0.8531                  | 1.188                   |                         | 1.777                  | -0.4669                | 1.793                  | 3.999                  | 0.5588           | -1.187           | 0.6244           |
| 1177 | 0.7522                  | 1.617                   | -0.5901                 | 2.296                  |                        | 0.1322                 | 0.7385                 | -1.282           | -0.358           | 0.1434           |
| 1178 | 0.2221                  | -0.09352                | -0.1602                 | -0.3136                | -0.8379                | 0.4421                 | 0.4184                 | 0.03773          | 1.242            | 1.123            |
| 1179 | 0.7022                  | -0.2734                 | 0.8699                  | 0.6764                 | -0.1378                | 1.042                  | 1.948                  | 0.1478           | 1.052            | 0.7534           |
| 1180 | -0.3358                 | 0.4386                  | -0.02805                | 0.5485                 | 0.1442                 | -0.1058                | -1.029                 | -0.9402          | -1.036           | -1.415           |
| 1181 |                         | 1.114                   |                         | 0.2836                 | -0.5206                |                        | 1.216                  | 0.245            | -1.581           | -0.03938         |
| 1182 | 0.6167                  | 1.051                   | 1.544                   | -0.379                 | -0.8733                | -1.253                 | -0.817                 | -1.268           | -0.08348         | -1.932           |
| 1183 | 0.3372                  | 0.6416                  | 0.8549                  | 1.551                  | -0.3428                | 1.477                  | 2.183                  | 0.3428           | -0.113           | -0.1616          |
| 1184 | 0                       | 0.9344                  | -0.4523                 | 0.4243                 | 0.93                   |                        | 0.2063                 | -0.7644          | -0.4502          | -0.07875         |
| 1185 | -0.9469                 | -0.0825                 | -0.6291                 | -0.2626                | 0.7631                 |                        | -0.8906                | -1.341           | -0.6571          | -0.7856          |
| 1186 | 0.1725                  | 1.007                   | 1.18                    | 0.9368                 | 0.8325                 | -1.478                 | -2.931                 | -1.392           | -1.548           | -0.9263          |
| 1187 | 0.42                    | 1.034                   | 0.4077                  | 0.7643                 | 1.05                   | -0.94                  | -2.894                 | -2.244           | -1.32            | -1.389           |
| 1188 | 0.22                    | 0.5444                  | 0.2877                  | 1.224                  | 1.19                   |                        |                        | -1.294           | -0.7002          | -1.179           |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1225 | -0.03438                | -2.10E-11               | 1.123                   | 1.25                   | 0.8456                 |                        | -0.9681                |                  | -0.4546          | -0.1231          |
| 1226 | 1.166                   | 1.4                     | 0.8637                  | 0.8802                 | -0.6541                | -0.2641                | -0.7078                | -1.418           | -1.264           | -1.013           |
| 1227 | 0.7424                  | 1.347                   | -0.5199                 | -0.2733                | 0.0324                 |                        | -1.571                 | -0.852           | -1.098           | -0.8663          |
| 1228 | 0                       | 0.6844                  | -0.2823                 | 0.04426                | 0.17                   |                        | -0.5537                |                  | -1.42            | -0.2288          |
| 1229 | 0.1684                  | -0.05727                | -0.9539                 |                        | 0.2384                 |                        | 0.07465                |                  | -1.722           | -0.3404          |
| 1230 | -0.1917                 | -0.1573                 | -0.654                  | -0.8175                | -0.3417                | -1.432                 | -2.185                 | -0.1861          | -0.06191         | -0.1205          |
| 1231 | -0.3731                 | 0.07125                 | -0.5954                 | -0.7389                | -0.2931                | -1.373                 |                        | -0.0875          | 0.00668          | 0.1581           |
| 1232 | -0.1607                 | -0.07633                | -0.443                  | -0.6564                | -0.2507                | -0.8307                | -1.754                 | 0.1849           | -0.0008984       | 0.02055          |
| 1233 | 0.03                    | 0.6244                  |                         |                        | -0.03                  | -0.16                  |                        |                  | -0.8002          | -0.2587          |
| 1234 | 0.55                    | 0.5744                  |                         | 0.3643                 | 0.25                   |                        |                        |                  | -0.5402          | -0.2987          |
| 1235 | 0.1415                  | -0.004141               |                         | 0.4457                 | -0.5885                |                        | 0.08777                | -0.02289         | -0.1487          | -1.017           |
| 1236 | 0.08141                 | -0.5042                 | 0.3491                  | 0.7957                 | 0.2414                 | 0.6714                 | 0.8177                 | -0.123           | -0.3688          | -0.1873          |
| 1237 | -1.01                   | 0.2044                  |                         | 0.09426                | 0.64                   | 0.56                   | 1.256                  | -1.914           | -1.72            |                  |
| 1238 | 0.64                    | -0.3256                 |                         |                        | -0.5                   |                        | -0.3737                |                  | 0.1798           | 1.891            |
| 1239 | -0.3984                 | 0.06594                 | 0.7993                  | 0.5258                 | -0.7384                |                        | -0.5721                | 0.06719          | 0.1014           | -0.1172          |
| 1240 | -0.2898                 | -0.6255                 | 2.438                   | 1.174                  | -0.8798                | 0.8402                 | -0.003555              | -1.084           | 0.09996          | -0.2386          |
| 1241 | -0.86                   | 0.05438                 |                         |                        | -0.32                  | 0.58                   | 0.02629                | 0.5156           | -0.9002          | -0.7287          |
| 1242 | -0.0175                 | -0.6931                 | -0.3498                 | 0.3368                 | -0.0875                | -0.2775                | 0.3988                 |                  | -0.7877          | -1.566           |
| 1243 | 0.4508                  | -0.6248                 | 0.02852                 | 0.595                  | -0.6992                | 1.191                  | 1.647                  | -0.4036          | 0.4506           | 0.482            |
| 1244 | 0.2131                  | -0.0525                 |                         | 0.3874                 | 0.4631                 |                        |                        | 2.119            | 0.9629           | 0.2844           |
| 1245 | 1.173                   | 2.437                   |                         | 3.047                  | 0.9627                 |                        | 1.239                  |                  | 1.003            | 0.924            |
| 1246 | -0.09                   | 0.2944                  | 1.838                   | 0.7643                 | 1.32                   | 0.53                   | 1.216                  | 1.936            |                  | 1.441            |
| 1247 | -0.37                   | -0.9056                 | 1.068                   | 1.284                  | 1.52                   | 1.87                   | 2.666                  |                  |                  | 2.231            |
| 1248 | 0.43                    | 0.03438                 | 2.808                   | 3.494                  | -0.86                  | 0.26                   | -0.2237                | 2.566            | 3.07             | 3.311            |
| 1249 | -0.31                   | 1.074                   | -0.4023                 |                        | -0.14                  | -0.67                  | 0.7763                 | 0.4156           | 0.0198           | 0.7912           |
| 1250 | -0.252                  | 0.8723                  |                         | 3.852                  |                        | 2.788                  | 3.144                  | 0.1836           | 0.2878           | 1.679            |
| 1251 | 0.3232                  | 0.4076                  |                         | -0.4625                | -0.2368                | 0.3832                 | 0.4295                 |                  | -0.006953        | 0.2045           |
| 1252 |                         | -0.3156                 |                         | -0.4457                | -0.56                  |                        | -0.1637                | 0.6756           | -0.0502          | 0.8712           |
| 1253 | -1.145                  | -0.1506                 | -0.2673                 | 0.9193                 | -1.105                 | 0.895                  | 0.7613                 | 1.461            | -1.465           | -1.114           |
| 1254 | 0.64                    | -0.3756                 |                         | -0.6457                |                        |                        |                        | 0.6256           | -1.07            | -0.9287          |
| 1255 | 0.5549                  | 0.7193                  |                         | 0.1392                 | -0.7851                | 3.455                  | 4.801                  | 0.7105           | 0.2047           | 0.4862           |
| 1256 | -0.56                   | -0.07562                |                         | -0.4057                | 4.69E-08               | 0                      | -0.09371               | 0.7056           | -0.5002          | -0.5387          |
| 1257 | -0.71                   | -0.6556                 |                         | -0.4057                |                        | -0.23                  | 0.4563                 |                  | 1.59             | 0.7913           |
| 1258 | 0.2031                  | -0.2025                 |                         | -0.9026                | -0.2669                | 0.003125               | 0.6094                 |                  | 1.943            | 0.9244           |
| 1259 | 0.06672                 | 0.4611                  |                         |                        | -0.6733                |                        | 0.103                  | 1.082            | 1.527            | 1.718            |
| 1260 | 0.2048                  | 0.2392                  | 0.2025                  | -0.2109                | -1.115                 | 1.645                  | 3.151                  | 1.48             | 1.265            | 0.8261           |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
| 1261 | 1.395                   | 3.259                   | -1.237                  | 1.169                  | 1.135                  | 1.165                  | 0.3713                 | 0.6006           | -1.095           | -0.3137          |
| 1262 | 1.238                   | -1.048                  | -0.4643                 | -0.07773               | 2.468                  | -0.492                 | -0.9557                |                  | -2.142           |                  |
| 1263 | 0.27                    | -0.1056                 |                         | 1.844                  | 1.93                   |                        | -0.4337                | 0.1056           | 1.13             | 1.611            |
| 1264 | -0.0325                 | -0.3381                 | -0.2048                 | 0.05176                | -0.9725                |                        | 0.8738                 | -0.9869          | 0.1373           | -0.05125         |
| 1265 | -1.345                  | -1.301                  | -0.007422               | 0.8291                 | -0.7652                | -0.1452                | 0.9311                 | -0.04953         | 0.2846           | 0.09609          |
| 1266 | -0.5256                 | 0.4587                  | -0.4179                 | 0.2586                 | 0.5644                 | -0.4656                | 0.09066                | -0.28            | 1.374            | 1.326            |
| 1267 | 0.9444                  | -1.181                  |                         |                        | 0.3644                 |                        | 0.01066                | 0                | -0.4558          | -2.874           |
| 1268 | 0.5456                  | -3.49E-11               | -0.1966                 | 0.6399                 | 0.4956                 |                        |                        |                  | 0.04543          | 0.4469           |
| 1269 | 0.6691                  | 0.9135                  | -0.3731                 | 0.5534                 | 0.9391                 |                        | 0.00543                |                  | -0.4111          | -0.1896          |
| 1270 | 0.2693                  | 0.2037                  |                         | 0.2336                 | 0.0693                 | -0.4507                | 0.08559                | 0.1949           | -0.0008984       | 0.1605           |
| 1271 | 0.19                    | 0.2144                  | 0.5477                  | 0.3343                 | 0.13                   | -0.49                  | -0.9437                | 1.606            |                  | 0.3112           |
| 1272 | 0.59                    | 1.574                   | 0.6677                  | -0.5657                | -0.14                  | 0.05                   | -0.7737                | 0.8656           | -0.0602          | -0.7087          |
| 1273 | -0.3444                 | 0.82                    |                         | -0.5901                | 0.3256                 | 0.5956                 | 0.1119                 | 0.5213           | 1.295            |                  |
| 1274 | -0.04125                | -0.5569                 |                         | -0.147                 | -0.5713                | -0.1113                | 0.445                  | 0.3344           | 0.5286           | 0.67             |
| 1275 | 1.133                   | 1.777                   | -0.2798                 | -0.4432                | -0.2775                |                        | -0.5712                | 0.8681           | 0.6623           | 0.6338           |
| 1276 | -0.6612                 | -0.1669                 |                         | 0.603                  | 0.1187                 | 0.6087                 | 0.765                  | 0.2544           | 0.4086           | -0.78            |
| 1277 | 1.192                   | 2.546                   | 4.08                    | 2.826                  | 0.132                  |                        | -1.312                 |                  | 1.002            | 0.5632           |
| 1278 | 1.87                    | 2.934                   | 3.918                   | 3.064                  | 0.51                   | -0.42                  | -0.6237                | 0.8256           | 0.9198           | 0.6013           |
| 1279 | 0.4956                  | 1.89                    | 1.003                   | 0.1999                 | 0.7856                 | -0.5844                | -0.3381                | -0.04875         | 1.025            | 0.6869           |
| 1280 | 2.168                   | 2.732                   | 2.265                   | -0.0282                | 2.628                  | -1.492                 | -1.596                 | 1.543            | 0.6373           | 0.5788           |
| 1281 | 0.87                    | 0.7844                  | 0.7577                  | 1.454                  | -0.19                  | 0.52                   | -0.3637                |                  | 0.2598           | -1.789           |
| 1282 | 0.52                    | 0.2544                  |                         | 0.6843                 | -1.16                  |                        | 0.5063                 |                  | -0.4502          | 0.6813           |
| 1283 | -0.6761                 | -0.4317                 | 0.1816                  | 0.07816                | -0.02609               | -0.4061                | -0.7998                | 0.8395           | 0.6437           | 0.6052           |
| 1284 | 0.2811                  | 0.9755                  |                         | 0.5754                 | 0.03109                | -0.9389                | 0.1374                 |                  |                  | 1.302            |
| 1285 | 0.8259                  | 0.3103                  |                         | 1.12                   | 0.7659                 | -0.6841                | 0.09223                | 0.02156          | 1.756            | 1.327            |
| 1286 | -0.4625                 | -0.1381                 | 0.3452                  | -0.08824               | -0.0125                | 0.3175                 | 0.1938                 |                  | -0.3427          | -0.1912          |
| 1287 |                         | -0.01125                | 0.04211                 | 0.8786                 | 0.9644                 | 0.1144                 | 0.8607                 | 0                | 0.9942           | -0.8144          |
| 1288 | 0                       | 0.09438                 | 0.1377                  | 0.4543                 | -0.11                  | 0.27                   | 0.08629                | 0.5456           | 0.5098           | 0.4412           |
| 1289 | -0.75                   | -0.5156                 | -0.4423                 | 1.104                  | -0.35                  | 0.17                   | 0.4763                 | 0.4656           | 1.66             | 1.531            |
| 1290 | -0.5952                 | -0.6208                 | 0.07254                 | 1.109                  | 0.9648                 | -0.6552                |                        | -0.7196          | 0.9946           | 0.9761           |
| 1291 | -0.5155                 | -0.1511                 | 0.2123                  | 0.8188                 | 0.3045                 | -0.5055                | 0.0008203              | 0.4002           | 1.014            | 0.6958           |
| 1292 | 0.1722                  | 0.01656                 | -0.4401                 | 0.6464                 | 1.602                  | -0.3878                | 0.3885                 | -0.002187        | 0.04199          | 0.5234           |
| 1293 | 0.01414                 | -0.2715                 | -0.5981                 | 0.4884                 | 0.9841                 | -0.1759                |                        |                  | -0.1461          | 0.1454           |
| 1294 | -0.07453                | 0.02984                 | 1.063                   | 1.92                   | 0.5755                 | -0.06453               | -0.01824               | -0.1789          | 1.335            | 1.167            |
| 1295 | 0.5944                  | -0.4312                 |                         | 0.3386                 | 0.07437                |                        | 0.3507                 | 0.28             | 0.2442           | 0.7656           |
| 1296 | 0.1203                  | 0.2047                  | 0.08805                 | -0.6154                | -0.4597                | 0.7203                 | 0.6666                 | 0.1459           | -1.01            | -0.4284          |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1297 | 0.4                     | 0.5444                  | -0.9523                 | 0.03426                | 0.01                   | 0.08                   | 0.8363                 |                  | 0.6898           | 1.221            |
| 1298 | 0.6                     | 0.9244                  | -0.8023                 | -0.6657                | -0.01                  | 0.37                   | 1.006                  | 0.2956           | 0.7898           | 1.161            |
| 1299 | -0.5113                 | -0.04688                | -0.9835                 | -0.537                 | 0.1287                 | 0.2687                 | 0.215                  | -0.2556          |                  | 0.24             |
| 1300 | 0.67                    | 0.2444                  | -0.1323                 | 0.9843                 | 0.95                   | -0.3                   | -0.02371               | 0.7756           | -0.0202          | 0.4113           |
| 1301 | 0.02492                 | -0.4607                 | 1.123                   | 1.089                  | 1.155                  | 1.265                  | 2.161                  |                  | 0.2447           | 1.086            |
| 1302 | 1.617                   | 2.472                   | 2.545                   | 0.7616                 | -0.4227                | 2.087                  | 2.724                  | -0.717           | 0.6671           | -0.1014          |
| 1303 | 0.4159                  | 0.2703                  | 2.054                   |                        | -1.554                 | -0.7241                |                        | -0.09844         | 1.266            | 1.637            |
| 1304 | 0.6994                  | 0.4537                  | -0.2229                 | 1.394                  | 1.029                  | -0.2506                | 0.9657                 | -0.685           | -0.2808          | -0.4194          |
| 1305 | 0.573                   | 0.7973                  | 0.7807                  | 1.637                  | 0.883                  | -0.827                 | -1.011                 | -0.05141         | 1.063            | 1.114            |
| 1306 | -0.3775                 | -0.7231                 | 0.08023                 | 0.2168                 | -0.3875                | 0.5225                 | -0.01121               | -0.7719          | 0.3523           | 0.00375          |
| 1307 | 0.1905                  | 0.2749                  | 0.3883                  | 1.115                  | 0.1005                 |                        | -0.2532                | 0.8262           | 1.56             | 1.052            |
| 1308 | 0.1724                  | 0.02678                 | 0.2601                  | 0.9567                 | -0.1176                |                        | -0.1713                | 0.838            | 0.9422           | 0.8437           |
| 1309 | 0.3475                  | 0.001875                |                         | 0.8518                 | 1.497                  |                        | -0.3762                |                  | -0.2827          | 0.8788           |
| 1310 | -1.004                  | 0.4006                  | 0.04398                 | 1.121                  | 0.6063                 |                        | -0.06746               | 0.9719           | 0.9161           | 0.5175           |
| 1311 | 0.2163                  | 0.7606                  |                         | -0.3695                | -1.124                 | -0.5238                | 0.7025                 | -0.1581          | 0.5061           | 0.8275           |
| 1312 | 0.9334                  | 0.7378                  | 0.4511                  | 0.6577                 | -0.7366                | -0.4866                | -0.1803                |                  | 0.003203         | 0.3546           |
| 1313 | -0.2964                 | -0.212                  |                         | -0.3021                | -1.006                 | 0.003594               | 0.4099                 | -1.261           | -0.3866          | -0.3852          |
| 1314 | -0.3279                 | 0.2765                  |                         | -0.8836                | -0.9279                |                        | 1.378                  | -2.282           | -1.438           | -1.637           |
| 1315 | -0.53                   | 0.8544                  | 0.5877                  | -0.1557                | 0.33                   | 0.72                   | 2.506                  | -1.344           | -0.7202          | -1.599           |
| 1316 | 0.895                   | 3.639                   | -0.3773                 | -0.4007                | 0.395                  | 1.125                  |                        | 0.8506           | -0.7052          | -0.6738          |
| 1317 | 1.912                   | 3.896                   |                         | -1.474                 | -0.8784                | 2.922                  | 3.708                  | -0.9728          | -0.4486          | -0.5872          |
| 1318 | 0.5267                  | 1.581                   |                         | -0.269                 | -0.2233                | 1.307                  | 1.743                  |                  | -0.2035          | -0.392           |
| 1319 | -0.122                  | 1.662                   | 0.1658                  | -0.3677                | -0.172                 | 1.008                  | 3.454                  | -0.8163          | -1.012           | 2.299            |
| 1320 | 0.6957                  | -0.5199                 | -0.8366                 | -3.91E-05              | -1.204                 | 1.376                  | 1.732                  | -0.8787          | -0.3045          | 0.507            |
| 1321 | -0.07547                | 1.239                   | -1.008                  | -0.3512                | -0.5555                | -0.4855                | 0.0008203              | -1.61            | -0.02566         | -0.8742          |
| 1322 | -0.4214                 | 0.263                   | 0.3163                  | 0.7629                 | -0.4114                | 0.2686                 | -0.08512               | -0.1858          | 0.3084           | 0.3298           |
| 1323 | -1.263                  | 0.4716                  | 0.1549                  | 0.7514                 | -0.9928                |                        | -0.1965                | 0.9328           | 0.487            | 0.02844          |
| 1324 | 0.02                    | 0.1044                  | -0.3823                 |                        | -0.09                  | 0.83                   | 0.01629                | -0.9544          | 0.2998           | -0.2988          |
| 1325 | 0.7861                  | 0.4705                  | 0.03383                 | 0.4204                 | 0.5161                 | -0.5439                | -0.06762               | -0.4483          | -0.1741          | -0.3827          |
| 1326 | 1.95                    | 2.134                   | 0.1777                  | -1.326                 | -1.3                   | -1.4                   | 0.1163                 |                  | -0.7602          | -2.259           |
| 1327 | 0.08391                 | 0.5583                  |                         | -0.1118                | 0.05391                |                        | 0.4802                 | 0.3395           | -1.066           | -0.03484         |
| 1328 | -0.04625                | 0.1581                  |                         | -0.232                 | -0.3662                | -0.6063                | 0.31                   | 0.08938          | 2.184            | 1.595            |
| 1329 |                         | 0.07312                 | -1.744                  | -0.257                 | 0.1887                 | -0.8213                | -0.915                 | -0.1056          |                  | 0.53             |
| 1330 | 0.3257                  | -0.3599                 | -1.037                  | -3.91E-05              |                        | 0.3357                 | -0.138                 | -0.1487          | 0.6955           | 0.497            |
| 1331 | 0.4267                  | 0.8811                  | -1.396                  | -0.139                 | 0.5667                 |                        | -0.307                 | 0.4623           | -0.5435          | -0.752           |
| 1332 | -0.1987                 | -0.2144                 | 0.02898                 | 0.6455                 | -0.2488                | 0.7712                 | -0.3625                | 0.5769           | 0.1111           | -0.1475          |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1333 | -0.08437                | 0.27                    |                         | 0.4399                 | 0.07562                |                        |                        | -0.8387          | -0.9546          | -0.2931          |
| 1334 | 0.6022                  | 1.187                   |                         | -0.3236                |                        | 0.1722                 | -1.002                 | -0.6422          | -0.138           | 0.4534           |
| 1335 | 0.308                   | 0.2824                  | -0.6942                 | -0.5377                | 0.658                  |                        | -0.1057                | 0.4837           | 0.5679           | 0.4993           |
| 1336 |                         | 0.1866                  | -0.87                   | -1.283                 | 0.002266               | -0.5577                | -0.001445              | 0.01789          | 0.9921           | 0.3135           |
| 1337 | -1.046                  | -1.131                  | 0.5821                  | 0.01863                | -0.6056                | 0.3844                 | 0.8207                 | 0                | 1.204            | 0.6356           |
| 1338 | -0.2355                 | -0.7111                 | -0.7177                 | -0.1712                | 0.2845                 | 0.07453                | 0.0008203              | 0.4502           | 0.6843           | 0.4158           |
| 1339 | -0.08563                | -0.2813                 |                         | 1.289                  | 0.2244                 |                        | -0.06934               | 1.26             | 1.064            | 1.456            |
| 1340 | -0.02                   | -0.5156                 |                         | 0.5443                 | -1.19                  |                        | 0.2463                 |                  | 1.14             | 0.9113           |
| 1341 | -1.612                  | 0.07234                 | -0.2743                 | -1.368                 | -0.002031              | -0.782                 | 1.214                  | 1.324            | -0.1922          | -0.2308          |
| 1342 | 0.04437                 | -0.5313                 |                         | 0.8986                 | -1.476                 | -1.596                 | 0.4207                 | 1.51             | 0.7042           | 1.526            |
| 1343 | 0.63                    | -0.02563                |                         | -1.396                 | -0.86                  | -1.19                  | -0.4537                | -2.144           | -0.5902          | -0.2088          |
| 1344 |                         | -1.012                  | -1.548                  | -0.6318                | -1.106                 |                        | -0.05973               |                  | 0.2338           | -0.05477         |
| 1345 | -0.205                  | 0.07941                 | -0.8372                 | -0.0007031             | -0.875                 | -0.855                 | -0.3587                | 0.0006641        | 0.5548           | -0.5037          |
| 1346 | 1.286                   | 0.6402                  | 1.174                   | 0.03008                | -1.004                 | 2.856                  | 3.582                  |                  | 0.1656           | 1.907            |
| 1347 | 0.5485                  | 0.1829                  | 2.306                   |                        | -0.9415                | 2.078                  | 3.935                  | 0.5841           | 0.02828          | 0.07973          |
| 1348 | 0.5096                  | 0.674                   |                         | 2.014                  |                        | 2.38                   | 3.696                  | -0.2647          | -0.0005469       | -0.5991          |
| 1349 | 0.2194                  | -1.246                  |                         | 1.184                  | 0.6094                 |                        |                        |                  | 0.09918          | -0.05938         |
| 1350 | 1.68                    | 1.124                   | 1.348                   | 2.944                  |                        | 3.35                   | 4.186                  |                  | -0.01039         | 0.4811           |
| 1351 | -0.175                  | -0.3306                 | -0.1273                 | 0.7793                 | 0.905                  | 0.205                  | 1.691                  | 0.7106           | -0.5052          | -0.7637          |
| 1352 | -0.407                  | 0.4473                  | 0.9007                  |                        | 0.373                  | 2.833                  | 2.959                  | 0.8286           | -0.03723         | 0.004219         |
| 1353 | -0.3061                 | 1.698                   | 0.6016                  | -0.3718                | 0.2639                 |                        | 2.71                   |                  | -0.2263          | -0.3248          |
| 1354 | -0.295                  | -0.4906                 | 0.002734                | 0.4993                 |                        | 2.585                  | 4.321                  | 0.08063          | -0.1852          | 0.3063           |
| 1355 | 0.18                    | 0.4144                  | 0.8777                  | -0.1357                | -0.38                  | 2.22                   | 3.326                  | -1.384           | -0.7702          | -0.3587          |
| 1356 | -0.1641                 | 0.3303                  | 0.8537                  | 0.0502                 | -0.4941                | 2.166                  | 3.502                  | -1.418           | -0.7043          | -0.3628          |
| 1357 | -1.145                  | 0.4094                  | -0.1473                 | 0.4893                 | 0.505                  | 3.355                  | 4.331                  | -0.009375        | -0.7552          | -0.7337          |
| 1358 | 0.0124                  | 2.107                   | 2.22                    | -0.6633                | -0.3276                | 2.192                  | 1.959                  |                  | -2.048           | -1.946           |
| 1359 | -0.2117                 | 0.6427                  | 1.006                   | 0.4825                 |                        |                        |                        | 0.08391          | -0.09191         | -0.01047         |
| 1360 | 0.01                    | 0.1844                  | 0.4877                  | 0.8343                 | 0.13                   | 0                      | 0.5063                 | -0.6044          | 0.3098           | 0.2713           |
| 1361 | 0.07875                 | -0.2869                 | 0.2065                  | 1.443                  | 0.05875                | 0.6987                 | 1.515                  | 0.3344           | 1.339            | 1.48             |
| 1362 | 1.17                    | 0.8944                  | -0.1623                 | 0.7643                 | -0.59                  | 2.91                   | 3.106                  | -0.9244          | -0.2102          | -0.4787          |
| 1363 | 0.509                   | 1.393                   | 1.027                   | 2.243                  | 1.329                  | -0.02102               | 0.9353                 | 1.065            | 0.8388           | 0.5602           |
| 1364 | 0.34                    | 1.494                   | 0.4777                  | 2.474                  | 2.03                   | 0.25                   |                        | 1.036            | 1.31             | 0.7312           |
| 1365 | -0.4807                 | -0.05633                | 0.307                   | -0.2064                | 0.2793                 | -1.891                 | -1.184                 | -0.8351          | -0.0008984       | 0.5305           |
| 1366 |                         | 0.1116                  |                         | -2.278                 | -1.833                 | -1.343                 | -0.006445              |                  | -0.3129          |                  |
| 1367 | 0.78                    | 0.8944                  | -0.3323                 | -0.7557                | 0.13                   |                        | 0.3263                 | 1.186            | 0.5298           | 1.181            |
| 1368 | 1.485                   | -1.401                  | -4.527                  |                        |                        |                        | -0.5087                | 1.051            | 2.265            | 1.146            |



Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1369 | 0.5271                  | -0.2986                 | -0.0852                 |                        | 0.9071                 |                        | -1.017                 | 0.8227           | -0.2631          | 0.5183           |
| 1370 | 0.04                    | -0.3456                 | 0.5377                  | -0.7357                | -1.24                  | -0.38                  | 0.1763                 | 0.4156           | 0.5198           | -0.3088          |
| 1371 | 0                       | -0.07562                | 0.1877                  | 0.5943                 | 0.06                   | -0.48                  | 0.4163                 | -0.2844          | 1.21             | 1.131            |
| 1372 | -0.205                  | -1.081                  | 0.1927                  | 0.3093                 |                        | -0.935                 | -0.7887                | -0.4294          | -0.4552          | -0.07375         |
| 1373 | 0.41                    | 0.6144                  | 0.5077                  | 1.084                  | 0.12                   | 0.59                   | 0.6063                 | -0.3544          | 0.2898           | -0.05875         |
| 1374 | -0.075                  | -0.8206                 | 0.4927                  | 0.4493                 | -1.285                 | -1.155                 | -1.249                 | -0.7794          | -0.3152          | -0.3237          |
| 1375 | 0.1                     | -0.3356                 | 0.1627                  | 0.9243                 | -0.71                  | -1.14                  | -0.9337                | -0.7644          | -0.3002          | -0.4588          |
| 1376 | -0.1136                 | -0.2992                 | 0.8341                  | 0.8507                 | 0.4164                 | 0.3564                 | 0.2227                 |                  | -0.4838          | -1.012           |
| 1377 | -0.1075                 | -0.9231                 | 0.2302                  | -0.2632                | 0.9625                 | 0.3025                 | -0.2612                | -0.7084          | 0.0123           | -1.936           |
| 1378 | 0.5459                  | 0.8903                  | 0.9737                  | 0.8302                 | -0.7741                | -2.814                 | 0.002227               |                  | -0.1643          | -0.002813        |
| 1379 | 0.3948                  | 1.109                   | 0.8925                  | 1.329                  | 0.0948                 | -1.755                 | -0.3289                |                  | -0.07539         | 0.4661           |
| 1380 | 0.515                   | 1.289                   | 1.503                   | -0.1107                | 0.285                  | 1.485                  | 1.981                  | -1.209           | -0.005195        | -0.2237          |
| 1381 | 0.5387                  | -0.6869                 | 2.306                   | -0.08699               | 0.01875                | 0.08875                | 0.275                  | 2.024            | 1.169            | 1.39             |
| 1382 | -0.3044                 | -1.40E-11               | 1.093                   | 1.75                   | -0.1644                | 0.5956                 | 1.902                  | 0.4313           | 0.5854           | 0.3169           |
| 1383 | 0.35                    | 0.2444                  | 0.5077                  | 0.4143                 | -0.07                  | 0.17                   | 0.09629                | 2.466            | 1.75             | 2.241            |
| 1384 | 0.18                    | 0.6344                  | -0.3023                 | 0.2443                 | -0.77                  | -0.14                  | 0.4263                 | -2.024           | 0.0898           | 0.2013           |
| 1385 | -0.38                   | -0.2656                 | -1.362                  | 0.3043                 | -0.62                  | 0.17                   | 1.246                  | -0.08437         | 0.7498           | 1.221            |
| 1386 | -0.07844                | 0.02594                 | 0.1693                  | 0.1858                 | -0.1584                | -0.6184                | 0.1779                 | -0.2328          | 0.4114           | 0.4428           |
| 1387 | -0.61                   | -0.4156                 | -1.052                  |                        | 0.21                   | 0.05                   | 0.6163                 | -0.2044          | 0.2698           | 2.161            |
| 1388 | -0.4206                 | -0.7963                 |                         | 0.3536                 | 0.3194                 | -0.1006                | 0.1957                 | 0.375            | 0.2592           | 1.881            |
| 1389 | 1.574                   | 0.2881                  |                         | 2.248                  | 1.014                  |                        | -0.03996               | -0.9606          | -0.6664          |                  |
| 1390 | 0.2798                  | 0.3142                  | 0.3476                  | 0.3041                 | -0.03016               | 0.9398                 | -0.1639                | -0.3445          | -0.1304          | -0.1289          |
| 1391 | 0.004648                | 0.749                   | 0.07238                 | -0.6811                | -0.1454                | 0.6346                 | -0.8391                |                  | -0.005547        | -1.414           |
| 1392 | 0.05875                 | -0.5869                 | 0.9765                  | 0.743                  | 0.5587                 | -0.3313                | -0.125                 | -1.706           | -1.791           | -1.43            |
| 1393 | -0.1206                 | -0.1163                 | 0.7271                  | 0.3236                 | 1.209                  | -0.7006                | -0.7143                | -0.465           | -0.03082         | 0.05062          |
| 1394 | -0.4041                 | -0.2397                 | 0.1137                  | 1.3                    | 0.1159                 | 0.1159                 | 1.252                  | -0.02844         | 0.01574          | 0.1972           |
| 1395 | -0.45                   | 0.3444                  | 0.7277                  | 1.054                  | 0.2                    | 0.75                   | 0.4063                 | 0.6556           | 0.1698           | 0.6613           |
| 1396 | -0.29                   | -0.06562                | 0.6477                  | 0.9343                 | 0.41                   | 0.69                   | 0.3663                 | 0.8156           | 0.0998           | 0.8713           |
| 1397 | -0.005                  | 0.1794                  | 1.093                   | 0.8493                 | 0.175                  | 0.245                  | 0.3713                 | 0.09063          | 0.1748           | 0.8662           |
| 1398 | 0.06734                 | 0.2417                  |                         | 1.832                  | 0.1673                 | 1.227                  | 1.974                  | -1.127           | -0.06285         | -0.1514          |
| 1399 | 0.1278                  | -0.4278                 | 0.4255                  | 0.8421                 | 0.3878                 | -0.1322                | -0.5959                |                  | 1.108            | 1.589            |
| 1400 | 0.7048                  | 0.8592                  | 0.05254                 | 0.9791                 | 0.8448                 | -0.3452                | 0.5811                 | -0.4596          | -0.2554          | 1.046            |
| 1401 | -0.23                   | 0.1244                  | -0.2523                 | 1.294                  | 1.49                   | -0.59                  | 0.1863                 | -1.344           | -0.1502          | -0.3188          |
| 1402 | -0.4584                 | 0.06594                 | 1.199                   | 0.3158                 | 0.5916                 | -1.058                 | -0.4421                |                  | -0.04863         | -0.05719         |
| 1403 | -1.48                   | -1.316                  | -0.5423                 | -0.5357                | 0.46                   | -0.22                  | -0.05371               | -0.1644          | 0.6398           | 0.4812           |
| 1404 | 0.2061                  | 0.8305                  | 0.1538                  | 1.04                   | 1.326                  | -0.5739                | -1.148                 | -0.8183          | -0.3941          | -0.1927          |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1405 | 0.402                   | 0.8163                  | -0.07031                | 0.4462                 | 1.412                  | -0.938                 | -1.092                 |                  | -0.2782          | 0.1332           |
| 1406 | 0.5894                  | 0.4338                  | 0.6671                  | -0.1664                | 0.009375               | -3.661                 | -1.274                 | -0.935           | -0.6708          | -0.1094          |
| 1407 | 0.11                    | 0.5844                  | 0.5377                  | 0.7343                 | 0.06                   | -0.23                  | -0.06371               |                  | -0.4902          | -0.03875         |
| 1408 | -0.03719                | 0.3672                  | 0.2505                  | 0.3671                 | 0.5328                 | -0.2572                | 0.9491                 | -1.022           | -0.8574          | -0.2159          |
| 1409 | -0.1895                 | -0.4852                 | -0.3818                 | -0.8653                | -1.19                  | -0.1995                | 0.6768                 | -0.7339          | -0.7297          | -0.4083          |
| 1410 | -0.2816                 | -0.5173                 | 0.1461                  |                        | -1.602                 | 0.2984                 |                        | -0.616           | -0.8218          | -0.1804          |
| 1411 | -0.08                   | -1.066                  | 0.3377                  | -1.336                 |                        | 0.49                   | 0.1263                 | 0.2056           | -0.2202          | 0.09125          |
| 1412 | -0.5641                 |                         | 0.6837                  | 0.2902                 | 0.2959                 | -0.3941                | 0.2422                 | -1.338           | -0.2243          | -0.2628          |
| 1413 | -0.1843                 | 7.81E-05                |                         | 0.43                   | 0.6057                 |                        | 0.902                  | -0.1087          | 0.7255           | 1.247            |
| 1414 | -0.2161                 | -0.01172                | -0.4384                 | 0.6882                 | 0.5239                 | -0.3561                | -0.2998                | -0.2205          | 0.5637           | 0.3752           |
| 1415 | 0.595                   | 0.5094                  | 0.1927                  | 1.599                  | 1.485                  | 0.205                  | 0.7813                 | -0.6394          | -0.3352          | 0.3363           |
| 1416 | -1.348                  | -0.9731                 | 1.05                    | 0.6868                 | 1.212                  | -0.0275                | 0.8388                 | -0.9419          | -0.3777          | 0.1837           |
| 1417 | -0.5144                 | -4.66E-12               | 0.3934                  | 0.5299                 | 1.106                  | -1.034                 | -0.3381                | -1.599           | -0.6846          | -0.8331          |
| 1418 | -1.026                  | -1.141                  | 0.9121                  | 0.8286                 | 0.2844                 | -1.536                 | -1.879                 | -2.14            | -0.1658          | 0.1156           |
| 1419 | -1.041                  | -0.3169                 | -0.5935                 | 0.463                  | 0.4987                 | -1.311                 | -0.255                 | -1.466           | -0.1814          | 0                |
| 1420 | -0.6378                 | -0.3334                 | -7.81E-05               | 0.4564                 | 0.6822                 |                        | -0.3515                | -0.5022          | -0.178           | -0.09656         |
| 1421 | -0.7612                 | -0.4569                 | -0.6635                 | 0.223                  | 0.2087                 | 0.08875                | 0.715                  | -0.7056          | 0.2986           | 0                |
| 1422 | -0.598                  | 0.08633                 | 0.5097                  | -0.1138                | -0.938                 | 0.152                  | 0.5182                 | -1.392           | -0.9482          | -0.7368          |
| 1423 | -0.065                  | -0.3006                 | 0.3427                  | 1.009                  | 0.355                  | 0.405                  | 0.07129                | -0.5694          | -0.3552          | -0.08375         |
| 1424 | -0.1525                 | -0.9381                 |                         | 1.432                  | 0.6575                 |                        | -1.076                 |                  | 0.1073           | 0.2787           |
| 1425 | -0.41                   | 0.5444                  | -0.3623                 | 0.8143                 | -0.07                  | -0.43                  | 0.7163                 | -1.424           | -0.5402          | -0.4388          |
| 1426 | -1.124                  | -1.39                   | 0.6438                  | 0.7104                 | 0.2861                 | -2.244                 |                        | -1.718           | -0.1441          | 0.2873           |
| 1427 | -0.5                    | -0.8856                 | 0.9977                  | 0.8243                 | 0.74                   | -0.91                  | 0.4963                 | -1.874           | -0.8002          | -0.5088          |
| 1428 | -0.5528                 | -0.7984                 | 0.9849                  | 0.9014                 | 0.5572                 | -0.6328                | 0.4635                 | -2.287           | -1.113           | -0.7116          |
| 1429 | -0.6789                 | -0.4845                 | 1.189                   | 1.145                  | 0.6411                 | -0.5389                | 0.4474                 | -2.513           | -1.079           | 1.012            |
| 1430 | 0.5345                  | 0.7589                  | 0.1423                  | 0.3988                 | -0.6555                |                        | 0.0008203              | -0.4198          | 0.4143           | 0.1958           |
| 1431 | -0.8486                 | -0.8542                 | 0.3691                  | 0.6057                 | -0.1586                | 0.4114                 | 1.078                  | -0.913           | 0.3412           | 0.2327           |
| 1432 | -0.77                   | -0.4856                 | 0.5977                  | 0.9043                 | 0.24                   | 0.24                   | -0.04371               |                  | 0.0498           | -0.1487          |
| 1433 | -0.39                   | 0.2444                  |                         | 0.9743                 | -0.03                  | 0.21                   | 1.066                  | 0.03563          | -0.1502          | 0.08125          |
| 1434 | -0.5397                 | 0.2847                  |                         | 1.785                  | 1.45                   |                        |                        | 0.2759           | 0.2601           | 0.6316           |
| 1435 | -0.2484                 | -0.05406                | 1.699                   | 2.196                  | 0.8716                 | -0.008438              | 0.3979                 | 1.217            | 0.1114           | 0.5128           |
| 1436 | -0.5741                 | -0.1097                 | -0.2063                 | 0.2402                 | -0.01406               | 0.2059                 | 0.4622                 | -1.328           | 0.1757           | -0.3228          |
| 1437 | 0.1067                  | -0.1389                 | 0.8745                  | 0.201                  | 0.3767                 | 0.08672                | -0.237                 | -1.638           | -0.2835          | -1.172           |
| 1438 | 0.02625                 | -0.2894                 | 0.324                   | -0.4395                |                        |                        | -0.5775                |                  | -0.1639          | 0.2775           |
| 1439 | -1.24                   | -0.9255                 | 0.9279                  | 0.1944                 | -0.8498                | -1.35                  | -1.174                 | -0.7942          | 0.15             | 0.3414           |
| 1440 | -0.48                   | 0.1544                  | -0.4923                 | -0.5057                | -0.22                  | -0.05                  | -0.4937                | -1.244           | 0.2898           | -0.3388          |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1441 | -0.0607                 | -0.8963                 | -0.813                  | 0.4836                 | -0.6307                | 0.2593                 | -1.004                 | -0.5308          | -0.0008984       | -0.5495          |
| 1442 | -0.1665                 | -0.2321                 | -0.5187                 | 0.4178                 | -0.4365                | -1.166                 | -0.8402                | -0.5308          | -0.03666         | -0.2052          |
| 1443 | 0.8044                  | 0.9988                  | -0.4579                 | 0.2586                 | 0.03437                | -0.5856                | -0.2993                | -0.64            | -0.07582         | -0.1744          |
| 1444 | 0.583                   | -0.1326                 |                         |                        | 1.313                  |                        | -0.5007                | -0.07133         | -0.6271          | 0.8543           |
| 1445 | 0.171                   | 0.4954                  | 0.6787                  | -0.3747                | -0.869                 | -0.359                 | -0.1527                | -1.383           | 0.8008           | -0.2578          |
| 1446 | -0.34                   | 0.6744                  | 0.8977                  | -0.6257                | -0.88                  | -0.16                  | 0.03629                | -1.654           | 0.4198           | -0.5287          |
| 1447 | -0.2995                 |                         | 0.2883                  | -0.5952                | -0.009453              | 0.0005468              |                        | -1.574           | -0.2196          | -0.4382          |
| 1448 | -0.3809                 | -0.3165                 | 0.5368                  | 0.003359               | 0.1991                 | -0.3109                | 0.4554                 | -1.535           | 0.06891          | -0.2396          |
| 1449 | 0.3328                  | 0.09719                 | 0.5405                  | 0.1871                 | 0.3528                 | 0.2328                 | -0.0809                |                  | -0.4374          | -0.5159          |
| 1450 | -1.52                   | -0.3156                 | 0.3677                  | -0.5557                | -0.45                  |                        | 1.656                  |                  | -0.5002          | -0.6688          |
| 1451 | -0.36                   | 0.6344                  | 1.378                   | 1.394                  | 0.64                   | 1.36                   | 2.416                  | -1.524           | -0.0902          | -0.06875         |
| 1452 | 0.5111                  | 0.5355                  | -0.7812                 | -0.4746                | -0.7589                | -0.05891               | 1.057                  | -1.853           | -0.6991          | -1.068           |
| 1453 | -1.043                  | -0.8384                 | -0.7551                 | 0.08145                | -0.9728                | -1.403                 | 0.8935                 | -1.737           | -1.133           | -1.032           |
| 1454 | 0.2                     | -0.2256                 | -0.1323                 | 0.3043                 | -0.06                  | -0.31                  | 0.4763                 | -0.6844          | 0.1798           | 0.3012           |
| 1455 | 0.8678                  | 1.652                   | 0.6655                  | 0.4421                 | 2.238                  | -0.08219               | -0.3859                | -0.5766          | 0.1876           | 0.4491           |
| 1456 | 0.09031                 | 0.9747                  |                         | 0.5746                 | 0.4103                 | -0.5397                | 0.7266                 | -0.4441          | -0.5699          | -0.9184          |
| 1457 | 0.31                    | 1.344                   | 0.5877                  | 0.7843                 | 0.97                   | -0.32                  | 0.01629                | -0.7544          | -1.39            | -1.239           |
| 1458 | -0.04                   | -0.02563                | 1.268                   | -0.2157                |                        | 0.38                   | -0.4037                | -2.344           | -0.5402          | -0.3888          |
| 1459 | -0.1413                 | 0.1131                  | -1.524                  | 1.323                  | 1.369                  | 1.299                  |                        | -1.486           | 0.02855          | -0.72            |
| 1460 | 0.31                    | 0.2644                  |                         | 0.9743                 | 1.19                   | 0.8                    | 1.936                  | -0.5044          | -0.5802          | -0.4988          |
| 1461 | -0.6643                 | 0.08008                 | -1.497                  | -3.91E-05              | -0.9043                | 1.696                  | 2.492                  | 2.221            | 0.4555           | 0.307            |
| 1462 | 0.21                    | 0.4244                  | 2.778                   | 1.954                  | -1.07                  | 0.08                   | -1.114                 | -0.7144          | -0.3402          | -0.4488          |
| 1463 | -0.0075                 |                         | -0.1198                 | 2.967                  | 1.422                  | -0.0075                | -0.3112                |                  | 0.8223           | 0.8537           |
| 1464 | 0.4711                  | -0.05449                | -1.111                  | -0.2246                | -0.4189                | -0.2189                | 0.4174                 | -0.7132          | -0.3091          | 0.02238          |
| 1465 | 0.9394                  | -0.5262                 | -1.273                  | 0.5436                 |                        |                        | 0.5357                 | 0.205            | -0.5208          | 0.1906           |
| 1466 | 0.4973                  | 0.5916                  | 1.305                   | 0.5415                 | 0.2573                 | 0.2673                 | 0.4036                 | -0.3171          | 0.7871           | 1.939            |
| 1467 | 0.5303                  | 0.1547                  | 0.478                   |                        | 0.8903                 |                        | 0.3066                 |                  | 0.3701           | -1.338           |
| 1468 | -0.2713                 | 0.4931                  | 1.296                   | 2.483                  | 2.109                  | -1.391                 | -0.665                 | 2.994            | 0.5286           | 1.35             |
| 1469 | 0                       | 0.3144                  | 2.018                   | 1.074                  |                        | -0.29                  | -1.314                 | 3.606            | -0.1302          | -0.1488          |
| 1470 | -0.3045                 | -0.4401                 |                         | 0.4498                 | 0.6055                 |                        |                        | 2.851            | 3.255            | 2.777            |
| 1471 | -0.32                   | 0.3344                  | 0.2477                  | 0.7643                 | 0.61                   | 0.54                   | 1.636                  | 1.586            | 1.84             | 1.941            |
| 1472 | 0.4531                  | -0.0425                 | 0.9709                  | 0.9974                 | -0.3769                | -0.07688               | -0.4606                |                  | 0.5929           |                  |
| 1473 | 0.7887                  | 0.6031                  | 0.4665                  | 1.033                  | 1.589                  | -0.05125               | 0.695                  | -1.596           | -0.6514          | -1.88            |
| 1474 | 1.411                   | 1.235                   | 0.5188                  | -0.7646                | -0.2489                | 0.1511                 | 0.6074                 |                  | -1.369           | -1.318           |
| 1475 | 0.06                    | 0.6944                  | -0.1723                 | 0.4043                 | 1.38                   | -0.97                  | -1.274                 | -0.3044          | -0.6302          | -0.7988          |
| 1476 | -0.81                   | -0.6956                 | 1.108                   | 0.9543                 | 1.17                   | -1.26                  | -1.334                 | -0.3144          | 0.3998           | 0.5312           |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1477 | -0.7813                 | 0.09312                 | -0.7635                 | -0.467                 | 0.3087                 | -1.291                 | -0.555                 | -0.4256          | -0.7214          | -0.23            |
| 1478 | -0.09875                | -0.2344                 | 0.02898                 | 0.3955                 | -0.5888                | 0.8712                 | -0.5125                | 0.2769           | -0.2489          | 0.2525           |
| 1479 | -0.3052                 | -0.2308                 | -0.4575                 | 0.02906                | -0.4052                | -0.2552                | -0.8589                | 0.2904           | -0.5054          | 0.8561           |
| 1480 | 0.4722                  | 0.7166                  | 0.04992                 | -0.9036                | 0.2722                 | -1.498                 | -0.7015                | 0.3878           |                  | 0.2134           |
| 1481 |                         | 0.1044                  | -0.7023                 | 0.004258               | 0.07                   | -0.31                  | -0.003711              | 1.866            | 0.7598           | 0.7012           |
| 1482 | 0.5911                  | 0.6455                  | 0.2788                  | 0.8754                 | 0.3711                 | -0.4789                | -0.2526                | -0.4933          | 0.3409           | -0.04766         |
| 1483 | 0.31                    | 0.5444                  | 0.03773                 | -0.9957                |                        |                        | -0.5137                | -1.654           | -0.2502          | -0.9788          |
| 1484 | -0.3777                 |                         | 0.4701                  | 0.6666                 | 0.3123                 | -1.068                 | -0.9514                | -0.08203         | 0.4721           | 0.2836           |
| 1485 | 0.4239                  | 0.2583                  | -0.1784                 | 0.7682                 | 0.4539                 | -0.3461                | -0.3298                | -1.82            | 0.5137           | 0.5352           |
| 1486 | -0.025                  | -0.6206                 | -1.127                  | -0.3007                | 0.485                  | 1.375                  | 1.901                  |                  | 0.8448           |                  |
| 1487 | 0.04797                 | -0.9477                 | -1.484                  | 1.162                  | 0.188                  |                        | 0.02426                |                  | 0.7478           | 0.2492           |
| 1488 | -0.195                  | 1.779                   |                         | 0.6593                 | -0.395                 |                        | -0.3587                | 0.9906           | 1.165            | 0.9463           |
| 1489 | -0.258                  | -0.2137                 |                         | -0.08379               | -0.188                 | 0.732                  | 0.7882                 | 1.318            | 1.152            | 1.323            |
| 1490 | 0.3396                  | 0.174                   | -0.5326                 | 0.03391                | 0.1396                 | 0.1096                 | -0.1441                | -0.8647          | 0.009453         | 0.0209           |
| 1491 | -0.339                  | -0.01461                | 1.059                   | -0.6953                | 0.321                  | -0.339                 | 0.007305               | -1.783           | -0.7292          | 0.2223           |
| 1492 |                         | -0.6756                 |                         | 2.344                  | 1.34                   | 0.44                   | 2.106                  |                  | 0.8898           | 2.071            |
| 1493 | -0.08                   | 0.01438                 | -0.6823                 | 0.4543                 | 0.25                   | -0.62                  | 0.5063                 | -0.8144          | 0.1798           | -0.1287          |
| 1494 | 0                       |                         | 0.03773                 | 1.404                  | 0.84                   | 0.35                   | 1.546                  |                  | -0.5902          | 0.9112           |
| 1495 | -0.1516                 | -0.06727                | 0.1361                  | 1.233                  | 0.06836                | -0.04164               |                        | 0.564            | -0.2218          | 1.27             |
| 1496 | -0.4752                 | 0.00918                 | 0.3925                  | 1.339                  | 0.2948                 | -0.4652                | 0.03109                | -0.1396          | -0.2354          | 0.02605          |
| 1497 | 0.2242                  | 0.01859                 | -0.358                  | 1.798                  | -0.1458                |                        | -0.5195                | -0.6102          | 0.914            | 0.5855           |
| 1498 | 0                       | 0.5444                  | 0.05773                 | 0.4143                 | 0.01                   | -0.83                  | -0.8237                | -1.674           | 0.4698           | 0.3212           |
| 1499 | -1.168                  | -0.9738                 | -0.3905                 | -0.704                 | -0.08822               | 1.642                  | 0.2481                 | 0.4274           | 0.2916           | 1.683            |
| 1500 | 0.01125                 | 0.02563                 | -0.001016               | 1.216                  | -0.03875               | -0.2388                | 0.01754                | -0.8731          | -0.3889          | -0.1875          |
| 1501 | -0.32                   | -0.4856                 | 0.7177                  | 0.03426                | 0.23                   | 1.18                   | 0.9363                 | -0.6644          | -0.3302          | -0.00875         |
| 1502 | 0.8699                  | 1.084                   | 1.478                   | 2.094                  | 0.1499                 | 1.17                   | 1.776                  | -1.454           | -0.6003          | -1.239           |
| 1503 | -0.19                   | 0.01437                 | -0.6723                 | -0.2557                |                        | 0.69                   | 0.5763                 | 0.9856           | -0.4702          | -0.3188          |
| 1504 | 0.04937                 | 0.4437                  |                         | -0.9504                |                        | 1.499                  | 2.136                  |                  | 0.04918          | 0.7206           |
| 1505 | -0.41                   | 0.7044                  | -0.2423                 | 0.9043                 | -0.47                  | 0.8                    |                        | 0.9556           | 0.0698           | 0.3312           |
| 1506 | -0.225                  | 0.4894                  | -0.07727                | 0.9093                 | -0.495                 | 1.245                  | -0.008711              | 1.421            | 0.3548           | 0.5863           |
| 1507 | -0.68                   | -0.6356                 | 0.8477                  | 0.2043                 | 0.14                   | 1.77                   | 1.596                  | 0.1356           | -0.0498          | 0.8113           |
| 1508 | -0.1525                 | -0.02812                | 0.9352                  | 0.1118                 | -0.1725                | 1.637                  | 1.234                  | 0.3231           | 0.4173           | 0.8588           |
| 1509 | 0.3931                  | 0.2875                  | -0.4591                 | 0.6974                 | 0.3731                 |                        | -0.6206                | -0.5312          | 0.5529           | 0.2144           |
| 1510 | 0.8675                  | 1.882                   | 0.2552                  | 0.1018                 | -1.422                 | 0.5575                 | 0.3138                 | 0.5731           | -1.333           | -1.101           |
| 1511 | 0.4987                  | 0.1031                  |                         | -1.107                 | -0.5913                |                        | -0.165                 | -0.005625        | 0.6886           | 0.16             |
| 1512 | -1.06                   | -0.5556                 | 0.2477                  | -1.666                 | -1.23                  | -0.71                  | -0.05371               | 1.016            | 0.7598           | -0.07875         |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
| 1513 | -0.8212                 | -0.6469                 | 0.6965                  | -1.717                 | -1.451                 | 0.4387                 | 0.06504                | 1                | 1                | 1                |
| 1514 | 0.5456                  | -0.35                   | -0.06012                | -0.06012               | -0.06438               | -1.444                 | 0.7219                 | -0.5287          | -0.1846          | -0.2531          |
| 1515 | -0.6525                 | 0.3819                  | -1.285                  | -1.498                 | 0.1975                 | -1.113                 | -1.316                 | 1.213            | 1.207            | 2.009            |
| 1516 | 2.014                   | 0.2781                  | -1.292                  | -1.292                 | -0.1163                | -1.336                 |                        | 0.7794           | 1.094            | 1.705            |
| 1517 | -0.258                  | -0.1637                 | 1.35                    | 0.5062                 | -0.398                 | -0.608                 | -0.9718                | -0.7824          | 0.07176          | 0.4932           |
| 1518 | -0.3529                 | -0.1486                 | 1.015                   | 1.071                  | 0.9671                 | 1.487                  |                        | -0.6173          | -0.2231          | 0.5083           |
| 1519 | 0.09648                 | 0.3109                  | 0.2442                  | 0.4007                 | 0.3765                 |                        | -1.817                 | -1.648           | -0.9137          | 0.2777           |
| 1520 | -0.6328                 | -0.7684                 | -0.3451                 | -0.2486                | 0.7172                 |                        |                        |                  | -2.093           |                  |
| 1521 | -0.2998                 | -0.2355                 |                         | 0.5144                 |                        |                        | -0.8636                | -1.414           | -0.33            | -0.7286          |
| 1522 | -0.3139                 | 0.1605                  | -0.006172               | 0.3604                 | -0.2639                | 0.3661                 | 1.122                  | 0.5317           | -0.8841          | -0.6627          |
| 1523 | 0                       | 0.004375                |                         | 1.164                  | 0.46                   | 0.81                   | 2.446                  | -0.1244          | -0.2902          | -0.2388          |
| 1524 | -1.466                  | -1.432                  | 0.1716                  | 2.308                  | 1.744                  | 2.069                  | 1.86                   | 0.1595           | -0.3263          | 0.6252           |
| 1525 | -0.8807                 | -0.4263                 | -0.03297                | 2.974                  | 0.1793                 | 2.262                  | 3.246                  | -0.6022          | -0.0008984       |                  |
| 1526 | 0.06219                 | -0.6434                 | 0.3599                  | 0.01645                | -0.5478                | 0.5087                 | 1.818                  | -0.6022          | 0.302            | 0.4834           |
| 1527 | 1.139                   | 1.883                   | -0.6736                 | -0.8671                |                        |                        | 0.775                  | -0.0657          |                  | 0.3599           |
| 1528 | 0.1139                  | 1.408                   |                         | 0.02816                | -0.6661                |                        | -1.31                  |                  | 0.5837           | 0.2052           |
| 1529 | 1.021                   | 0.7755                  |                         | 2.145                  | 0.7211                 | 1.781                  |                        | -0.7433          | 0.2609           | 0.2023           |
| 1530 | 0.05734                 | 0.1517                  | 0.4951                  | -0.1684                | -0.6527                | 0.8973                 | 1.404                  | -1.657           | -1.003           |                  |
| 1531 | -0.1809                 | 0.4235                  | -0.003125               |                        | 0.9391                 | -0.8209                | -1.175                 | -0.5052          | -0.1511          | -0.6996          |
| 1532 | -0.63                   | -0.8156                 | -0.1923                 | 0.2543                 | 1.09                   |                        | -0.003711              | -1.004           | -1.45            | -2.699           |
| 1533 | 0.2744                  | 1.009                   | -0.1179                 | 0.6886                 | 0.4044                 | 0.02437                | 0.3707                 | -1.47            | -0.2058          | -0.02437         |
| 1534 | 0.15                    | 0.8044                  | -0.02227                | 0.7443                 | 0.36                   | -0.25                  | 0.5063                 | -0.6344          | 0.4298           | -0.05875         |
| 1535 | 0.04688                 | 1.061                   | -0.07539                | 1.981                  | 1.567                  | -0.07313               | 0.6332                 | -0.7675          | -0.2733          | -0.2819          |
| 1536 | -0.1041                 | -0.05977                | 0.3936                  | 0.1401                 | 0.1259                 |                        | 0.3521                 | -0.8485          | 0.7057           | 0.5371           |
| 1537 | -0.1097                 | 0.4847                  | 1.488                   | 1.515                  | 0.7103                 | 0.4403                 | 0.4266                 | -0.2241          | 0.6701           | 0.3416           |
| 1538 | 0.9112                  | 0.9956                  | 3.259                   | 1.036                  | 0.5312                 | 0.9512                 | 1.408                  | -0.3131          | -0.1989          | -0.8975          |
| 1539 | 0.6238                  | 0.7081                  | 3.271                   | 0.888                  | 0.2337                 | 0.9837                 | 1.71                   | -0.3806          | -0.5164          | -0.975           |
| 1540 | 0.3259                  | 0.7602                  | 2.764                   | 0.8301                 | 0.4759                 | 0.4159                 | 1.332                  | -0.1385          | -0.1643          | -0.5329          |
| 1541 | 0.5144                  | 0.6388                  | 0.1021                  | 0.1786                 |                        |                        | -0.4893                |                  | -0.1958          |                  |
| 1542 | 0.2472                  | 0.6616                  |                         | 0.6314                 | 0.4772                 |                        | 0.7035                 | 0.3828           | -0.743           | 0.1384           |
| 1543 | -0.3652                 | -0.2908                 | 0.4625                  | 1.129                  | 1.395                  |                        | 0.6811                 | -0.3896          | 0.01461          | -0.02395         |
| 1544 | 0                       | -0.1456                 | 0.7277                  | 0.4843                 | 0.54                   | -0.03                  |                        | 0.02563          | -0.0102          | -0.09875         |
| 1545 | 0.1288                  | -0.5069                 | 0.6365                  | 0.703                  | 0.5287                 | 0.1287                 | 0.515                  | -0.4956          | 0.1186           | 0                |
| 1546 | -0.5161                 | -0.1517                 | -0.1984                 | 0.2882                 | -0.5561                | 1.334                  | 2.41                   | -1.31            | -0.3263          | -0.6248          |
| 1547 | -1.024                  | 0.45                    | -0.1466                 | 0.4799                 | 0.005625               | 0.5856                 | -1.128                 | -0.5787          | -0.6446          | -0.7531          |
| 1548 | 0.158                   | 0.7424                  | 0.2758                  | 1.422                  | -0.372                 | 0.928                  | 2.504                  | -0.9663          | 0.4879           | 0.2293           |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
| 1549 | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1550 | -2.161                  | -1.237                  | -1.274                  | 0.133                  | 0.1087                 | -1.411                 | -0.355                 | -2.476           | -1.151           | -0.3             |
| 1551 | -0.7838                 | -1.099                  | -0.166                  | -0.01949               | -0.5738                | -0.2038                | 0.2125                 | -0.1481          | -1.334           | -0.7525          |
| 1552 | -0.73                   | 0.07438                 | 0.4077                  | 0.5743                 | -0.81                  | -1.3                   | 0.1463                 | -2.604           | -1.26            | -1.379           |
| 1553 | 0.04367                 | 0.208                   | -0.7886                 | 1.428                  | 1.134                  |                        | -0.02004               |                  | 0.3235           | 0.5949           |
| 1554 | 0.1539                  | 0.3883                  | 0.3216                  | 0.6382                 | 0.8939                 | 0.1239                 | 0.4302                 | -1.01            | -0.1763          | -0.2148          |
| 1555 | -0.46                   | 0.2044                  | 0.4477                  | 0.6543                 | -0.14                  | -0.31                  |                        | -1.644           | -0.0802          | -0.03875         |
| 1556 | -0.09078                | 0.6236                  | -0.08305                | 0.3735                 | 1.149                  | 0.2592                 | 0.2155                 |                  | -0.821           | -0.4395          |
| 1557 | 0                       | 0.2844                  | 0.2777                  | 1.084                  | -0.16                  | -0.01                  | 0.5463                 | -1.404           | -0.5002          | -0.3388          |
| 1558 | 0.2838                  | -0.1819                 | 0.3915                  | 1.238                  | -0.1062                | -0.3863                | 0.64                   | -1.341           | -0.4764          | -0.495           |
| 1559 | 0.515                   | 0.06937                 | 0.2927                  | 1.139                  | -0.265                 | -0.453                 | 1.521                  | 0.1106           | -0.2852          | -0.04375         |
| 1560 | -0.09488                | 0.001328                | 0.2047                  | 1.011                  | -0.283                 | -0.8149                | -0.1068                | 0.4826           | -0.03324         | -0.1318          |
| 1561 |                         | -0.7905                 | -0.3471                 | -0.04062               | -0.4849                | -0.8149                | 0.04141                | -1.819           | -1.585           | -0.6036          |
| 1562 |                         | -0.05547                | 0.1779                  | -0.3756                | -0.9498                |                        | -0.09355               |                  | -1.1             | -0.9986          |
| 1563 | 0.2059                  | -0.09977                | -0.3264                 | -0.4199                | -0.8841                | -0.7441                | 0.5621                 | -2.749           | -0.3343          | -0.8929          |
| 1564 | -0.2564                 | -0.01203                | 0.03133                 | 0.2179                 | -0.4964                | -0.4664                | 0.5099                 | -1.371           | -0.3966          | -0.3752          |
| 1565 | -0.3555                 | -0.01109                | 1.172                   | 0.8788                 | 0.5245                 | -0.8155                | 0.0008203              | -0.2398          | 0.3343           | 0.8758           |
| 1566 | -0.4312                 | -0.7069                 | 1.126                   | 0.663                  | -0.1413                | -0.01125               | -0.09496               | -0.9256          | 1.149            | 0                |
| 1567 | -0.2042                 | -0.9598                 | 1.174                   | 0.67                   | -0.1042                | -0.4842                | 0.03207                | -0.9786          | 0.8956           | -0.443           |
| 1568 | 0.04391                 | -0.3517                 | 1.1416                  | 1.478                  | 1.334                  | -0.3161                | 0.6102                 | -1.18            | 1.824            | 1.695            |
| 1569 | -0.08281                | -0.03844                | 0.01492                 | 1.151                  | 1.607                  | -0.4628                | 0.6235                 | -0.5172          | 1.117            | 1.118            |
| 1570 | -0.92                   | -0.4656                 | -0.7323                 | 0.1543                 | -0.47                  | 0                      | 0.6363                 | -1.944           | -0.6102          | -0.06875         |
| 1571 | 1.152                   | -0.9431                 | 1.13                    | 1.117                  | 0.9025                 | 0.1825                 | -0.7712                |                  | -0.6277          | -1.966           |
| 1572 |                         | -1.142                  |                         | 1.248                  | 0.6136                 | -0.04641               |                        |                  |                  | -0.8052          |
| 1573 | 0.8631                  | -0.1425                 | 1.051                   | 1.387                  | 1.053                  | -0.2069                |                        |                  | -0.5271          | -0.4156          |
| 1574 | 0.075                   | -0.2806                 | 0.3527                  |                        | 1.275                  | -0.225                 | 0.3613                 | -0.7794          | -0.1352          | 0.3463           |
| 1575 | 0                       | 0.3844                  | 0.2177                  | 1.024                  | 1.11                   | -0.25                  |                        | -0.8944          | -0.4302          | -0.1588          |
| 1576 | -1.297                  | -0.8228                 | -0.04945                | 0.1871                 | 0.1628                 | 0.1528                 | 0.7291                 | -1.312           | -0.9474          | -0.4859          |
| 1577 | -0.9672                 | -0.5028                 | 0.01055                 | 0.3671                 | 0.1228                 | -0.1972                | 1.049                  | -0.3216          | -0.6674          | -0.1759          |
| 1578 | -0.1812                 | 0.08313                 | 0.9265                  | 1.783                  | 1.589                  | -0.03125               | 0.695                  | 0.4544           | 0.1386           | 0                |
| 1579 | -0.6839                 | -0.3895                 | 0.07383                 | 0.2604                 | 0.7561                 | -0.7139                | 0.2524                 | -1.338           | -1.034           | -0.8527          |
| 1580 | -0.6291                 | 0.3752                  |                         | -1.025                 | -1.289                 | 0.9209                 | 0.4671                 | -1.894           | -1.739           | -2.038           |
| 1581 | -0.06375                | -0.1094                 |                         | 1.091                  | 0.4862                 | 0.4662                 | -1.317                 | -1.758           | -0.04395         | -1.523           |
| 1582 | 0                       | -1.136                  | 1.908                   | 0.2943                 | 0.77                   |                        |                        | -2.244           |                  | -1.889           |
| 1583 | 0                       | 0.5344                  | 2.488                   | 0.2043                 | 0.71                   | -0.59                  | -0.1837                | -1.034           | -0.2302          | -0.7188          |
| 1584 | 0.1536                  | 0.998                   | 2.841                   | -0.09215               | 0.6936                 | -0.7064                | 0.06988                | -0.8108          | -0.1666          | -0.5452          |
| 1585 | -0.2441                 | 0.3403                  | 0.1137                  | 0.4602                 | 0.4159                 | 0.1959                 | 1.722                  |                  | -0.9543          | 0.5472           |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1585 | -0.4                    | -0.04562                | 0.2877                  | 0.5043                 | -0.1                   | -0.54                  | -0.3137                | -0.5844          | 0.5398           | 0.1213           |
| 1586 | 0.9136                  | -0.372                  | -0.1187                 | 1.118                  | 1.054                  | -0.06641               | -0.9201                | -0.3508          | 0.1034           | 0.1248           |
| 1587 | -0.755                  | -0.2706                 | -0.1473                 | 0.8193                 | 0.895                  | -0.685                 | 0.09129                | 0.9906           | 0.0948           | -0.5638          |
| 1588 | -0.5761                 | -0.5017                 | 0.01168                 | -0.0118                | 0.01395                | 0.03395                | 0.6202                 | -1.93            | -0.9863          | -0.8148          |
| 1589 | 0.2728                  | -0.02281                | 1.521                   | 0.8471                 | 0.8228                 |                        | 0.8491                 | -1.392           | -0.8474          | -0.4859          |
| 1590 | 0.5056                  | -2.33E-11               | 1.473                   | 0.8699                 | 0.9056                 | 0.1056                 | -0.4181                |                  | -0.8446          | -0.1531          |
| 1591 | -0.5883                 | -0.6239                 | 0.4094                  | 0.3059                 | -0.2683                | 0.07168                | 0.768                  | -1.163           | -0.6185          | -0.6271          |
| 1592 | -0.1344                 | -0.13                   | 1.113                   | 0.8899                 | 0.1056                 | -0.4544                | 1.532                  | -1.279           | 0.1754           | -0.003125        |
| 1593 | -0.3193                 | 0.02504                 | 1.118                   | -0.02508               | -0.1693                | 0.4107                 | 0.807                  |                  | -0.4395          | -1.058           |
| 1594 | 0.3228                  | 0.02719                 | 0.4205                  | 0.5971                 | 0.1928                 | -0.02719               | 0.3291                 | -2.952           | -1.047           | -0.8959          |
| 1595 | 0.1167                  | 1.151                   | 1.724                   | 0.861                  | 0.4467                 | -1.193                 | -1.737                 | -1.508           | -0.4135          | -1.272           |
| 1596 | -0.08                   | 1.154                   | 1.798                   | 0.7043                 | 0.63                   | -1.12                  | -1.944                 | -1.364           | -0.1802          | -1.349           |
| 1597 | -0.2589                 | 0.9255                  | 1.819                   | 0.7754                 | 0.4611                 | -1.199                 | -1.953                 | -1.323           | -0.2191          | -1.538           |
| 1598 | 0.02031                 | 0.7147                  | 1.548                   | 0.6746                 | 0.5103                 | -0.6697                | -0.9734                | -0.7641          | 0.1701           | -0.7284          |
| 1599 | 0.04                    | 0.8344                  | 0.4977                  | 0.3243                 | 0.72                   | -2.47                  |                        | -2.574           | -0.9702          | -1.499           |
| 1600 | 0.69                    | 1.044                   | 0.4477                  | 0.4843                 | 0.97                   | -1.2                   | -3.544                 | -1.864           | -0.7602          | -1.779           |
| 1601 | -0.1413                 | 0.06312                 | -1.106                  | 0.03301                | 1.919                  |                        | -0.705                 | -0.8156          | -0.04145         | -0.35            |
| 1602 | -1.083                  | 0.561                   | 1.104                   | 0.1409                 | 1.997                  |                        | -2.747                 |                  | -0.2936          |                  |
| 1603 | 0.09352                 | -0.2621                 | 0.1012                  | 1.368                  | 0.7235                 |                        | -1.4                   | -1.321           | -0.4767          | -0.4052          |
| 1604 | -0.9538                 | 0.01055                 | -0.2461                 | 1.48                   | 1.186                  | -0.8838                | -0.5475                | -1.258           | -0.334           | -0.9426          |
| 1605 | -0.555                  | -0.4106                 | -1.577                  | 1.469                  | 0.495                  |                        | 0.6813                 |                  | -0.4952          | -1.944           |
| 1606 | -1.931                  | -1.337                  | 1.096                   | -0.5271                | 1.469                  | -1.411                 |                        | -1.096           | -1.002           | -1.85            |
| 1607 | -2.035                  | -1.381                  | 0.9727                  | -1.141                 | 1.305                  | -1.375                 | -1.759                 | -1.289           | -0.8652          | -1.664           |
| 1608 |                         | -1.701                  | 0.7727                  | -0.1107                | 1.295                  | -0.885                 |                        | -1.059           |                  | -1.354           |
| 1609 | 1.049                   | 0.6034                  | 0.2868                  | 0.4133                 | -0.2809                | -3.401                 | -2.905                 | -2.185           | -1.521           | -1.61            |
| 1610 | 0.7738                  | 1.028                   | 2.168                   | -0.1163                | -0.1163                | 0.9437                 | 1.73                   | -0.01766         | -0.8064          |                  |
| 1611 | -0.2833                 | -0.3789                 | -0.5555                 | -0.349                 | 0.8667                 | 0.5967                 |                        | 0.7556           | -0.1135          | -1.852           |
| 1612 | -0.58                   | -0.5456                 | -0.5623                 | 0.6643                 | 0.03                   | -0.59                  | -1.214                 | 0.7556           | 0.1998           | 0.8213           |
| 1613 | 0.7978                  | -0.04781                | 2.276                   | -1.038                 | 1.348                  | 0.5778                 | -1.456                 | -0.2466          | 1.228            | 0.5691           |
| 1614 |                         | 0.01828                 | 2.392                   | -0.2418                | 3.144                  | -0.3161                | -1.62                  | 0.4995           | 1.054            | 1.185            |
| 1615 | 0.4259                  | -0.03977                | 2.334                   | -0.4499                | 2.886                  | -0.06414               | -1.458                 | 0.6915           | 1.616            | 1.227            |
| 1616 | -0.9455                 | -0.2311                 | 0.6623                  | 1.009                  | 0.2445                 | -0.3255                | 0.0008203              | 0.0001563        | -0.9757          | -0.4242          |
| 1617 | -0.4739                 | -0.1295                 | 0.7639                  | 1.38                   | 0.5861                 | -0.4739                | -0.4176                | -0.3282          | -0.3841          | -0.3926          |
| 1618 | -0.6461                 | -0.07172                | 1.042                   | 1.648                  | 0.5939                 | -0.5461                | 0.2902                 | -0.7305          | -0.4763          | -0.6448          |
| 1619 | -0.3891                 | -0.7257                 | -0.1892                 | 0.09656                | 0.09656                | -0.4234                | 0.7829                 | 0.1522           | 0.6864           | 0.09781          |
| 1620 | -0.3243                 | -0.1699                 | -0.7566                 | -3.91E-05              | -0.3843                | 0.1957                 | 0.852                  | -0.1487          | 0.3455           | 0.187            |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
| 1621 | -0.935                  | -0.9006                 | 1.273                   | 0.7993                 | 0.855                  | -0.295                 | 1                      | 0.6006           | 0.4448           | 0.8162           |
| 1622 | -0.9055                 | -0.6511                 | 1.332                   | 0.7588                 | 0.7945                 | -0.04547               | 0.0008203              | 1.1              | 0.3243           | 1.026            |
| 1623 | -0.0852                 | 0.01918                 | 0.5025                  | 0.8391                 | -0.0952                | -0.5052                | 0.2711                 | 0.03043          | 0.9246           | 0.3461           |
| 1624 | -1.02                   | -0.2656                 | 0.7677                  | 1.364                  | 0.47                   | 0.12                   | 1.186                  | -1.254           | 0.3598           |                  |
| 1625 | 0.3967                  | 0.2611                  | 0.05445                 | 0.871                  | 1.057                  | 0.2567                 | 0.383                  | 0.09234          | 0.4965           | -2.502           |
| 1626 | 0.4953                  | -0.0003125              | 1.273                   | 1.56                   | -0.5147                |                        |                        | -0.6291          | -0.01488         | 0.3766           |
| 1627 | 0.1163                  | 0.1906                  | -0.09602                | 0.6905                 | 0.7063                 | -0.2638                | 0.1425                 | -0.5081          | -0.1339          | -0.2325          |
| 1628 | -0.66                   | 0.07437                 | 0.2277                  | 0.5443                 | 0.98                   | 1.03                   | 1.136                  | -1.414           | 0.0198           | -0.1388          |
| 1629 |                         | -0.6269                 | 0.2565                  | 0.303                  | 0.7887                 | 0.9587                 | 1.085                  |                  | 0.1086           | -0.1             |
| 1630 | -1.168                  | -0.4531                 | 0.4802                  | 0.4168                 | 0.9725                 | 0.4725                 | 1.289                  |                  | -0.2477          | 2.064            |
| 1631 | 0.2537                  | -0.09195                | -0.1286                 | -0.5821                | 0.3837                 | 1.574                  | 1.26                   | -0.5107          | 0.05348          | -0.1151          |
| 1632 | 0.1472                  | 0.9416                  | 0.3149                  | 1.741                  | 2.537                  | 1.537                  | 2.123                  |                  | -1.093           | -1.282           |
| 1633 | 0.9129                  | 0.7173                  | 0.5407                  | 0.6872                 | 2.083                  | 2.263                  | 1.799                  | -0.8514          |                  | -0.5958          |
| 1634 | 0.2948                  | -0.1208                 | 1.123                   | 1.679                  | 1.075                  | -0.2752                | 0.2011                 | 0.04043          | 0.7946           | 0.3061           |
| 1635 | -0.4125                 | -0.06812                |                         | 0.8818                 | -0.6725                |                        | 0.2238                 |                  | 0.4773           | -0.3012          |
| 1636 | 1.147                   | 0.8613                  | -2.775                  | 0.1611                 | -0.7131                | -0.1931                | -0.6368                | -0.0875          | 1.537            | 0.7881           |
| 1637 | 0.7407                  | 0.7251                  | -0.001523               | 1.275                  | -2.259                 | -0.4093                | -0.923                 | 0.1364           | 0.0005469        | 0.672            |
| 1638 | 0.303                   | 0.06734                 |                         | -0.7528                | 0.523                  | -0.947                 | -0.2607                | -0.1614          | -0.7572          |                  |
| 1639 | -0.3361                 | -0.1017                 |                         | 0.2282                 | -0.5961                | -0.3861                | -0.6698                | 0.7795           | 0.6037           | 0.8152           |
| 1640 | -0.8975                 | -0.6231                 | -1.15                   |                        | 0.3925                 | -0.5975                | -1.061                 |                  | 0.6023           | 0.4837           |
| 1641 | -0.34                   | 0.1044                  |                         | 0.07426                | -0.1                   | 1.21                   | 1.356                  | 1.496            | 1.05             | -3.209           |
| 1642 | -0.2643                 | -0.2099                 |                         | -3.91E-05              | 0.5457                 | 2.336                  | 3.322                  |                  | -1.284           | -0.873           |
| 1643 | -0.452                  | 0.08242                 | 2.756                   | 0.8323                 | 1.618                  | -0.212                 | 0.9443                 | -0.5463          | -0.1021          | 0.3893           |
| 1644 | -0.5943                 | -0.5999                 | 2.093                   | -3.91E-05              | -1.024                 | 1.256                  | 0.762                  | -1.989           | 0.3055           | 0.687            |
| 1645 | -0.89                   | -0.4256                 |                         | 0.5643                 | -0.27                  | 0.69                   | 1.196                  | -1.154           | 0.4498           | 1.841            |
| 1646 |                         | -0.455                  | 1.328                   | 0.04488                |                        | 0.7606                 | 0.9169                 |                  | -0.5496          | 0.01187          |
| 1647 | 0.1262                  | 0.08063                 | 1.794                   | 0.03051                | -0.3038                | 0.1862                 | 0.4625                 | -0.8181          | -0.9239          | 0.1575           |
| 1648 | 0.17                    | 0.07437                 | 2.588                   | 1.644                  | 1.6                    |                        |                        | -1.144           | -0.5602          | 0.3312           |
| 1649 | -0.02                   | 0.4244                  |                         | 0.8443                 | 0.19                   |                        |                        |                  | -0.3002          |                  |
| 1650 | 0.5156                  | -2.33E-11               | -0.8266                 | 0.2299                 | -0.1444                | 1.426                  |                        | 0.1213           | 0.1654           | -0.1431          |
| 1651 | 1.044                   | 0.8587                  | -1.298                  | 0.9786                 | 0.5544                 |                        | -0.8593                | 0                | -0.08582         | -0.5544          |
| 1652 | -0.22                   | -0.05563                | 0.007734                | -0.005742              | -0.89                  | -6.71E-08              | 1.276                  | -0.2744          | -0.1102          |                  |
| 1653 | -0.12                   | 0.5244                  | -0.4723                 | -1.636                 | 2.81                   | 0                      | 0.9363                 | 0.6956           | 0.0898           | 0.1013           |
| 1654 | -0.4279                 | -0.5935                 | 1.01                    | -0.1536                | 0.8621                 | 0.02215                | 0.1884                 |                  | 0.001953         | -2.597           |
| 1655 | -0.3087                 | 0.2857                  |                         | -0.2444                | 0.3713                 | 1.801                  | 1.188                  |                  | -1.679           | -2.127           |
| 1656 | -0.3241                 | -0.3598                 | 0.2836                  | -0.08988               | -0.3141                | -0.2441                | -0.3379                | -0.3985          | 0.1557           | -0.09289         |



Table 1

|      | NORWAY 39-AF | NORWAY 39-BE | NORWAY 15-AF | STANFORD 17 | STANFORD 35 | NORWAY 14-AF | NORWAY 14-BE | NORMAL    | NORMAL   | NORMAL | NORMAL   |
|------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|-----------|----------|--------|----------|
|      | ARRY27X      | ARRY26X      | ARRY47X      | ARRY49X     | ARRY48X     | ARRY5X       | ARRY4X       | ARRY6X    | ARRY8X   | ARRY7X | ARRY7X   |
|      | 1            | 1            | 1            | 1           | 1           | 1            | 1            | 1         | 1        | 1      | 1        |
| 1657 | -0.3027      | 0.2117       |              | -1.198      | 0.2673      | -0.8427      | -0.1364      |           | -0.3029  |        | -0.3914  |
| 1658 | -0.2243      | -0.8199      | -0.4266      | -3.91E-05   | 0.0657      | 0.1557       | -0.338       | 0.9013    | 1.616    |        | 1.297    |
| 1659 | 0.7621       | 1.467        |              | -0.9136     | -0.7179     | -0.6379      | -0.5416      |           | -0.01805 |        | -0.6266  |
| 1660 | -1.158       | -0.6737      | -0.3004      | -0.4339     | 0.4319      | -0.6281      | -0.2318      | 0.5875    | -0.08832 |        | -0.03687 |
| 1661 | 0.26         | -1.416       |              | 0.3343      | -0.58       |              | -0.7437      | -0.4744   | 0.3998   |        | 0.5912   |
| 1662 | 0.015        | 0.4994       |              | 1.579       | 1.005       | -0.825       | -0.4587      | -0.6194   | 0.7148   |        | 0.5162   |
| 1663 | -0.4944      | -1.63E-11    | 0.01336      | 0.009883    | 0.1256      | -0.1644      |              | 0.05125   | 0.1954   |        | -0.3231  |
| 1664 | -0.24        | 0.3844       | 0.7277       | -0.1257     | 0.42        | -0.12        | 0.5663       | -0.6144   | 0.0298   |        | 0.4213   |
| 1665 | 0.5675       | 0.3319       | 0.5052       | 0.4618      | 2.028       | -0.9625      | -0.8162      | -0.5969   | -0.8227  |        | -0.07125 |
| 1666 | 0            | 0.01438      | 0.5577       | 0.8643      | 1.35        | 0.06         | 0.2763       | -0.9644   | -0.3902  |        | 0.03125  |
| 1667 | 0.02734      | 0.4117       | 0.4551       | 0.6316      | -0.3327     |              | -0.1164      | 0.523     | -0.04285 |        |          |
| 1668 | 1.941        | 1.255        | -0.09117     | 0.2354      | 0.2511      | -0.5389      |              | -0.1333   | -1.109   |        | -0.9477  |
| 1669 | 2.169        | 2.493        | -0.8935      |             |             | 0.5987       | -0.225       | -0.8356   | -1.471   |        | -1.26    |
| 1670 | -0.4         | -0.5656      | 1.218        | -0.6957     | -0.68       |              | -2.804       |           | 0.7198   |        | 0.4012   |
| 1671 | -1.08        | -1.036       | 0.5874       | -0.2061     | -1.01       | -1.04        | -0.5941      | -1.315    | 0.02945  |        | 0.0509   |
| 1672 | -1.04        | -0.5556      | 0.6877       | -0.1457     | -0.55       | 0.79         | 0.4763       | 0.1756    | 0.2998   |        | 0.3713   |
| 1673 | 0.02         | 0.07437      |              | 0.06426     | -0.74       | -0.03        | 0.6863       | 1.106     | 0.7398   |        | 1.561    |
| 1674 | -1.146       | -1.041       | 0.672        | 0.3085      | 0.9742      | -1.926       | -1.579       | 0.2998    | 0.884    |        | 0.3955   |
| 1675 | -0.3614      | 0.233        | 0.8863       | 0.4229      | -0.2314     | 1.019        | 1.415        | -1.496    | -0.3416  |        | -0.2302  |
| 1676 | 0.4837       | 0.3281       | 0.08148      | 0.828       | 1.024       | -0.01625     | 0.47         | -0.9206   | -0.08645 |        | 0.135    |
| 1677 | -0.2041      | -0.1997      | -0.5463      | 0.0802      | 0.1959      | -0.3341      | -0.8778      |           | 0.05574  |        | 0.5872   |
| 1678 | -0.25        | 0.4644       | -0.6023      | 0.5143      | 0.52        | -0.81        | -0.4437      | 0.5256    | -0.0502  |        | 0.3312   |
| 1679 | 0.74         | 0.1944       | -1.432       | -0.005742   | 0.21        |              | 0.2263       | 1.406     | 1.15     |        | 0.8612   |
| 1680 | -0.1894      |              | 0.5484       | 0.8249      | 1.011       | -0.2894      |              | 0.2263    | 0.3504   |        | 0.1119   |
| 1681 | -0.211       | -0.3866      | 0.1867       | 0.8032      | -0.01102    | -0.211       | 0.3453       | -0.5654   | -0.3312  |        | 0.06023  |
| 1682 | -0.2189      | -0.3445      | 0.4488       | 1.055       | 0.1411      | -0.1689      | -0.02262     |           | -0.4491  |        | 0.1123   |
| 1683 | -0.17        | -0.3756      | -0.5723      | 1.224       | 1.86        | 0            |              | -0.05437  | 0.4198   |        | 0.6013   |
| 1684 | -0.1666      | -0.5423      | 0.6011       | 1.678       | 0.7234      | -0.02664     | 0.3296       | 0.309     | 1.163    |        | 1.945    |
| 1685 | 0.4169       | 0.2812       | -0.6854      |             | 3.107       | -1.673       | 1.603        | 1.032     | 0.8167   |        | 1.338    |
| 1686 | -0.9464      | -0.262       | -0.6787      | 0.1579      | 2.634       | 0.4936       | 0.5799       | 0.8292    | 1.433    |        | 1.585    |
| 1687 | 0.13         | -0.05563     | -0.1823      | 1.094       | 0.52        | 0.24         | -0.3337      | 0.2156    | 0.7998   |        | 0.8112   |
| 1688 |              | -0.04062     | -0.5373      | 1.749       | 0.855       | -0.125       | 0.3113       | -0.009375 | 0.7048   |        | 1.186    |
| 1689 | -0.8         | 0.01438      | -0.7423      | 0.2043      | 0.01        | 0.17         | 0.6963       | -0.9044   | 1.21     |        | 1.241    |
| 1690 | 0.8525       | 1.057        |              | -0.8732     |             |              | -0.4112      |           | 0.2123   |        | 2.134    |
| 1691 | -0.09891     | 0.005469     |              | 2.085       | 0.8211      | 0.08109      | -0.7026      | -0.8033   | -0.3291  |        | -0.7477  |
| 1692 | -0.3244      | -3.03E-11    | 0.2934       | -1.28       | -0.9444     | -1.374       | -0.5681      | -1.579    | -0.6346  |        |          |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1693 | -0.007813               | 0.3566                  | -7.81E-05               | -0.8636                | -0.7778                |                        | -0.4315                | -1.342           | -0.708           | -1.047           |
| 1694 | 0.4817                  | 1.266                   | 0.4395                  | -0.194                 | -0.6083                | -0.1083                | 0.368                  | -0.5327          | -0.3185          | -0.187           |
| 1695 | 0.735                   | 1.619                   | -2.357                  | 0.4593                 | 0.335                  | -0.715                 | -0.3187                | -1.279           | -1.255           | -1.394           |
| 1696 | 0.1438                  | 1.248                   | -0.4285                 | -0.212                 | 0.00375                | -0.6763                | 0.02004                | -0.5706          | -0.5964          | -0.345           |
| 1697 | 0.3137                  | 0.3581                  | -0.8085                 |                        | 0.3537                 | -0.5263                | -0.03996               | -1.481           | -1.206           | -0.795           |
| 1698 | -0.01                   | 0.4244                  | 0.01773                 | -0.1857                | -0.09                  | 0.09                   | 0.08629                | -0.1244          | -0.5202          | -0.3588          |
| 1699 | -0.2506                 | -0.7362                 | -0.1329                 | -0.6264                | 0.3694                 | -0.5106                | 0.5957                 | -0.705           | -0.7208          | -0.02938         |
| 1700 | -0.2969                 | 0.1275                  | 0.1709                  | 1.247                  | 1.633                  | -0.2769                | -0.1506                | 0.4588           | -0.6871          | -0.1356          |
| 1701 | -1.37                   | 0.1444                  |                         | -0.8857                | 0.94                   |                        | -0.03371               | -0.1944          | -0.8002          | -0.5587          |
| 1702 | 0.7887                  | 1.133                   | 0.4365                  | -1.687                 | 1.669                  | 0.7487                 | -0.195                 | -0.09563         | -0.5214          | -0.62            |
| 1703 | 0.4                     | 0.2044                  | 2.068                   | 0.4543                 | 1.92                   |                        | -0.5937                | -1.274           | 0.6098           | 0.5312           |
| 1704 | 0.01625                 | -0.2494                 | 1.454                   | 0.2005                 | 1.146                  |                        | -0.4875                | -0.4581          | 0.6761           | -0.5025          |
| 1705 | -0.04                   | -0.07563                | 1.318                   | 0.5543                 |                        | -0.16                  | -0.2237                | 2.476            | -0.0402          | 1.371            |
| 1706 | -0.59                   | -0.5256                 | 0.3677                  | -0.6457                | 0.24                   | -0.38                  | -0.1537                | -0.5944          | -0.4502          | -1.039           |
| 1707 | -0.255                  | -1.051                  | 0.03273                 | -0.4807                | 0.365                  |                        | -0.6687                | -0.4794          | -0.9452          | -0.8938          |
| 1708 | 0.2683                  | 0.6927                  | -0.214                  | 0.4025                 | 1.208                  |                        | 0.9246                 | -0.3561          | -0.5019          | -0.2805          |
| 1709 | -0.6273                 | -0.5529                 |                         | 0.667                  | 0.2327                 |                        | -0.281                 | 1.608            | 1.233            | 1.314            |
| 1710 | -0.8128                 | -0.5384                 | -1.015                  | -0.1086                | 0.1772                 | -0.5028                | -0.5965                | -0.4572          | 0.157            | 0.3084           |
| 1711 | -1.396                  |                         | -0.2487                 | 1.138                  | 0.6336                 |                        |                        | -2.771           | -0.3766          | 1.005            |
| 1712 | -0.8403                 | -1.356                  | -0.5426                 | -0.07605               | -0.4203                | -0.2603                | 0.06598                | -0.4947          | 0.1595           | 0.2209           |
| 1713 | -0.6335                 | -1.069                  | -0.3458                 | 0.5007                 | -0.03352               | 0.8865                 | 1.713                  | -1.618           | -0.5537          | -0.5823          |
| 1714 | -0.5556                 | -0.8912                 | -0.07789                |                        | 0.1244                 | 0.9044                 |                        | -1.23            | -0.5658          | -0.2144          |
| 1715 | -1.053                  | -1.029                  | -0.4255                 | 0.511                  | -0.4733                | 1.037                  | 1.563                  | -1.268           | -0.03348         | -0.322           |
| 1716 | -0.7228                 | -0.6484                 | 0.04492                 | 1.121                  | 0.2872                 | 0.9672                 |                        | -1.317           | -0.313           | -0.3816          |
| 1717 | -0.23                   | -0.4356                 | -1.242                  | 0.3243                 | 0.28                   | 0.04                   | 0.6563                 | -0.5244          | 0.3398           | 0.4512           |
| 1718 | -0.6397                 | -0.4153                 | -0.592                  | -0.6854                | -0.7097                | -0.2397                | 0.0966                 | -0.1541          | 0.07012          | -0.1884          |
| 1719 | -0.68                   | -0.5856                 | -0.3823                 | -0.7257                | -0.62                  |                        | -0.4637                | 0.4456           | 0.1498           | 0.1712           |
| 1720 | -0.237                  | -0.6027                 | -0.4493                 | -0.5728                | -1.097                 | -0.597                 |                        | -0.6114          | -0.2572          | -0.5958          |
| 1721 | -0.0475                 | -1.463                  |                         |                        | -0.6575                |                        |                        |                  | 0.6523           | 0.5637           |
| 1722 | -0.1152                 | -1.071                  | -0.1575                 | 0.9591                 | -0.3352                |                        | -0.6089                |                  | 0.3446           | 1.226            |
| 1723 | -0.2275                 | -0.09313                | 1.76                    | 0.2868                 | -0.3575                | 0.1725                 | -0.1912                | -0.03188         | 0.4223           | -0.04625         |
| 1724 | -0.34                   | -0.3356                 | 0.6477                  | -0.2157                | 0.2                    | 1.38                   | 1.696                  | -1.204           | -0.4802          | 1.391            |
| 1725 | -0.6441                 | -0.1997                 | 2.064                   | 0.2802                 | 1.456                  | 0.8259                 | -0.8978                | -0.4384          | -0.1943          | -0.1328          |
| 1726 | -0.5613                 | -0.5869                 | 1.176                   | 1.423                  | -0.4713                | -0.06125               | 0.165                  | -0.7556          | 0.4086           | 0.19             |
| 1727 | -0.37                   | -0.1156                 | -1.422                  | -0.04574               | 0                      | 0.24                   | 0.3663                 | -1.064           | 0.4198           | -0.03875         |
| 1728 |                         | 0.1806                  | -0.756                  | 0.06051                | -0.3938                | -0.6838                | -0.6175                | -0.2081          | -0.2739          | -0.5525          |

Table 1

|      | NORWAY 39-AF<br>ARRY27X | NORWAY 39-BE<br>ARRY26X | NORWAY 15-AF<br>ARRY47X | STANFORD 17<br>ARRY49X | STANFORD 35<br>ARRY48X | NORWAY 14-AF<br>ARRY5X | NORWAY 14-BE<br>ARRY4X | NORMAL<br>ARRY6X | NORMAL<br>ARRY8X | NORMAL<br>ARRY7X |
|------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------|------------------|------------------|
|      | 1                       | 1                       | 1                       | 1                      | 1                      | 1                      | 1                      | 1                | 1                | 1                |
| 1729 | -0.01                   | -0.06563                | -2.342                  | -0.2457                | 0.06                   | -0.02                  | 0.4963                 | 1.256            | 0.6398           | 0.5912           |
| 1730 | -0.6133                 | -0.6689                 | -0.07555                | -0.0316                | -1.503                 | -0.7333                | -0.237                 |                  | 0.8665           | 0.318            |
| 1731 | 1.744                   | 2.279                   | -0.9781                 | -0.3957                | 0.68                   | 1.754                  | 4.29                   | 0.4398           | 0.7639           | 0.5854           |
| 1732 | -0.45                   | 0.1044                  | -1.792                  | -0.3957                | 0.68                   | -1.15                  |                        | 2.486            | 2.59             | 2.541            |
| 1733 | -0.543                  | -0.7786                 | 0.4747                  | 0.01125                | 0.977                  | -0.753                 | 0.6133                 | -0.3474          | -0.2032          | -0.5818          |
| 1734 | 0                       | 0.8344                  | 0.3877                  | 1.164                  | -1.13                  | 0.79                   | 2.196                  | -1.924           | 0.4898           | -0.3088          |
| 1735 | 0.8958                  | -0.07984                | 0.3035                  | -0.34                  | 0.2858                 |                        | -0.4179                | 0.6214           | 0.6256           | 0.347            |
| 1736 | 0.1581                  | 0.5225                  | 0.1259                  | -0.4576                |                        | 3.748                  | 2.454                  | -1.226           | 0.1979           | 1.049            |
| 1737 | 0.08672                 | 0.1911                  | 0.1445                  | -0.319                 | -0.2833                | 3.467                  | 2.543                  | 0.06234          | 0.6665           | 1.108            |
| 1738 | 0.4822                  | 0.04656                 | 1.3                     | 0.5564                 | 0.8022                 | -0.05781               | 0.02848                | -0.002187        | -0.128           | 0.3534           |
| 1739 | -0.1381                 | 0.2663                  | -1.53                   |                        | -0.5981                | 0.4319                 |                        | 1.938            | 1.852            | 1.673            |
| 1740 | 0.33                    | 0.4444                  |                         | -0.6157                | 0.96                   | 1.25                   | 0.1263                 |                  | 0.0898           | 0.7213           |
| 1741 | 0.003125                | 0.3475                  | -2.449                  | -0.2726                | -0.1669                | 0.5231                 | 0.5294                 | 0.4288           | 0.1229           | -0.02562         |
| 1742 | 0.215                   | -0.3206                 | 0.3227                  | -0.4807                | -0.155                 | 0.295                  | 0.2713                 | -0.8894          | -0.005195        | 1.276            |
| 1743 | 0.01719                 | -0.1684                 | 0.2249                  | -0.1186                | 0.2072                 | -0.2928                | -0.4365                |                  | 0.537            | -0.3116          |
| 1744 | -0.265                  | -0.2506                 | -0.04727                | 1.489                  | 0.785                  | 0.015                  | -1.029                 | 0.08063          | 0.2448           | 0.5463           |
| 1745 | -0.045                  | -0.2606                 | -1.437                  | -0.3207                | 0.305                  | -0.505                 | 0.2513                 | 0.1106           | 0.4648           | 0.07625          |
| 1746 | -0.3213                 | -0.5369                 | 1.006                   | 0.483                  | 0.7787                 | -0.7213                | -1.225                 | 2.374            | 1.049            | 0.86             |
| 1747 | 0.375                   | 0.3094                  | 0.5027                  |                        | 0.115                  | 0.065                  | 0.4313                 | 0.5506           | 0.0548           | 0.5162           |
| 1748 | -0.2987                 | 0.6656                  | -1.561                  | 2.336                  | 3.581                  | 0.1412                 | 1.148                  | -1.083           | -1.309           | -0.1175          |
| 1749 | 1.802                   | 1.337                   | 1.06                    | 2.637                  | 0.3625                 | 1.772                  | 2.039                  | -0.5319          | -0.4777          | -2.606           |
| 1750 | 0.32                    | -0.3356                 |                         | 3.594                  |                        | 0.73                   | -1.654                 | 0.09562          | 0.2298           | 2.101            |
| 1751 | 0.03965                 | -0.146                  | 0.2074                  | 2.884                  | 0.9896                 | -0.5304                | -0.8841                | -0.5147          | -0.0005469       | -0.0591          |
| 1752 | 0.14                    | 0.4244                  | 1.068                   | 1.124                  |                        | -0.03                  | 1.466                  |                  | -0.0702          |                  |
| 1753 | -0.2778                 | -0.1234                 | -7.81E-05               | 0.8964                 | -0.4278                | 0.3422                 | 0.2385                 | -0.8522          | 0.852            | 0.1334           |

Table 1

|    | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|    | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|    | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 1  | 0.08527     | 0.5412       | -0.5788       | -0.9387      | -0.6981      | -0.1188      | 0.3125        | 0.2253        | 1.512         |
| 2  | 0.4246      | -0.5694      | -0.02938      | -0.4894      | -0.6987      | -0.9494      | 0.6119        | 0.4847        | 0.5612        |
| 3  | 0.264       | -0.06        | 1.98          | 1.36         | 1.541        | -0.89        | 1.951         | 2.464         | 0.7706        |
| 4  | 0.464       | 0.23         | 1.5           | 1.32         | 1.021        | -0.12        | 1.131         | 1.924         | 0.4606        |
| 5  |             | -0.34        |               | 0.43         |              | 0.09         |               | -0.08594      | -0.04938      |
| 6  | -0.852      | 0.664        |               | 0.844        | 0.6046       | 0.714        | 0.5152        | -0.112        | 0.7346        |
| 7  | -0.238      | 0.318        | 0.888         | 0.848        | 0.3386       | 0.928        | 0.5292        | 0.272         | 0.9186        |
| 8  | -0.09098    | 0.295        | -0.105        | -0.495       | 0.1556       | 0.185        | 0.8463        | 0.4691        | 0.5056        |
| 9  | -0.4358     | -0.4498      | 0.2602        | 0.4302       | -0.2792      | 0.4502       | 0.3714        | -0.3758       | -0.4592       |
| 10 | 1.924       | 0.13         | -0.02         | 0.2          | 0.3306       | 0            | -0.08875      | 0.4241        | 0.4006        |
| 11 |             | 0.275        | -0.035        | 0.085        | -0.05437     | 0.215        | -1.464        | 0.5991        | -0.8644       |
| 12 |             | -0.1469      | 0.2131        | 0.02313      | 0.02375      | -1.407       | 0.6444        | 0.6672        | 0.4337        |
| 13 | -0.4002     | -0.1742      | -0.004219     | 0.08578      | 1.136        | -0.5142      | 0.03703       | -0.1202       | 0.01641       |
| 14 | 0.344       | 0.01         | 0.64          | 0.31         | 0.1006       | 0.64         | -0.1387       | 0.08406       | -0.8494       |
| 15 | 1.254       | 0.5598       | 0.4098        | 0.5298       | 0.2805       | 0.8698       | 0.2711        | 0.4339        | -0.1095       |
| 16 | 0.4634      | -0.000625    | 0.4294        | 0.2494       | 2.28E-08     | 0.8794       | 0.2806        | -0.01656      | -0.96         |
| 17 | 1.817       | 0.5225       | -1.283        | 1.243        | 0.5931       | 1.733        | -0.1962       | 0.6566        | -0.3669       |
| 18 |             | -0.2985      | 0.9115        | 0.6615       | -0.1028      | 0.1415       | 0.2328        | -0.3844       | -0.04785      |
| 19 | -0.408      | 0.02795      | 0.2279        | 0.4479       | 2.569        | -0.4221      |               | 0.122         | 0.7886        |
| 20 | -1.003      | -0.3475      | -0.8075       | -0.7475      | 0.4431       | 0.4325       | -0.3063       | 0.02656       | -0.2169       |
| 21 | 0.588       | 1.124        | -0.09602      | 0.404        | 0.3146       | 1.084        | 0.7052        | 1.388         | 0.09461       |
| 22 | -0.5335     | -0.5375      | 1.122         | 1.002        | 0.2431       | 0.6425       | -0.3963       | -0.7034       | 0.3331        |
| 23 | -0.6472     | -0.7313      | -0.3213       | -0.3612      | 0.5294       | -0.1612      | -0.45         | -0.3472       | 0.2794        |
| 24 | -2.051      | -0.025       | 0.505         | 0.885        | -0.1744      | -0.035       | 0.3963        | -0.3809       | -0.5244       |
| 25 | -2.228      | 0.2675       | 0.8075        | 0.7475       | 0.2481       | 0.1875       | 0.3788        | -0.2184       | -0.1619       |
| 26 | -0.226      | 0.32         | -0.27         | -0.02        | 0.08063      | 0.86         | 0.04125       | 0.3841        | -0.4594       |
| 27 | -0.4807     | 0.4153       | 0.4853        | 0.3953       | 0.3259       | 0.9453       | 0.2965        | 0.1893        | -0.6441       |
| 28 | -0.6832     | 0.04273      | 0.1927        | 0.02273      | -0.7766      | 0.04273      | -0.006016     | 0.006797      | 0.6634        |
| 29 | 0.154       | 0.5          | 0.46          | 0.54         | -0.1794      | 0.43         | 1.061         | 0.6041        | 1.191         |
| 30 | 1.464       |              | 1.18          | 1.05         | 0.5506       | 1.42         | 0.9513        | 0.6541        | -0.1794       |
| 31 |             | 1.131        | 1.141         | 1.081        | 0.9217       | 1.391        | 0.2423        | 0.6352        | 0.3417        |
| 32 | -0.5997     | 0.8863       | 0.09625       | 0.1263       | 0.4269       | 1.126        | 0.6475        | 0.8803        | -0.2131       |
| 33 | -0.4604     | 1.056        | 0.7855        | 0.8055       |              | -0.1045      | 1.167         | 0.1196        | 0.7262        |
| 34 | -0.3824     |              | -0.1864       | 0.2936       | -0.1358      | -0.1764      | 0.3448        | 0.7977        | 0.5942        |
| 35 | 1.864       | 0.04         | -0.45         | -0.55        | 0.3006       | -0.01        | -0.2287       | 0.05406       | 0.1806        |
| 36 | 0.3558      | 0.2518       | -0.2682       | -0.4882      | -0.4076      |              | 0.08305       | 0.1359        | -0.2676       |

Table 1

|    | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|    | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|    | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 37 | 0.2043      | -0.4597      | -0.6897       |              | -0.3091      | -0.5597      | -0.2684       | -0.3056       | -0.2691       |
| 38 | -1.227      | -0.3213      | 0.00875       | -0.1112      | -0.1406      | -0.6412      | 0.53          | -0.007188     | -0.04063      |
| 39 | -1.266      | -0.05        | -0.3          | -0.29        | -0.1594      | -0.15        | 0.5313        | -0.09594      | -0.1394       |
| 40 | 1.499       | -0.005       | 0.305         | 0.015        | -0.05437     | 0.145        | 1.436         | 2.259         | 1.176         |
| 41 | 1.587       | 0.03281      | -0.2872       | -0.2172      | -0.2766      | 0.1828       | 1.894         | 2.457         | 1.013         |
| 42 | 1.515       | -0.02891     | 0.2611        | 0.04109      | -0.008281    | 0.2611       | 1.832         | 2.325         | 1.342         |
| 43 | 0.6565      | 0.7625       | 0.6025        | 0.0225       | -0.3169      | 0.6525       | 0.5438        | 0.4566        | 0.9931        |
| 44 | -0.656      | 0.85         | 0.31          | 0.59         | 0.3206       | 0.88         | 0.9613        | 0.4141        | 0.3406        |
| 45 | -0.516      | 0.58         | -0.54         | -1.29        | 0.2306       | -0.32        | 1.541         | 1.184         | 0.8606        |
| 46 | -0.2187     | -0.6227      | -1.033        | -0.5727      | 0.02789      | 0.06727      | 0.4585        | 1.411         | 0.7679        |
| 47 | -0.3449     | -0.1789      | 0.3711        | 0.4311       | 0.7917       | 0.8811       | -0.07766      | 0.5852        | 1.652         |
| 48 | 0.6083      | -0.4557      | 0.8243        | 0.6843       | 0.6749       | 0.4843       | 0.4055        | 0.3684        | 0.08492       |
| 49 | -0.2072     | 0.4987       | 0.7587        | 0.5088       | 0.01938      | 0.4688       | -0.24         | -0.1872       | 0.3194        |
| 50 | 1.284       | 0.28         | 0.82          | 0.84         | 0.2606       | 0.62         | 1.321         | 1.184         | 0.9006        |
| 51 | -0.03098    | 0.555        | 0.685         | 0.185        | 1.026        | 1.915        | 0.1263        | -0.4609       | 0.3856        |
| 52 | -0.796      | -0.01        | 0.04          | 0.56         | 0.04063      | 0.79         | -0.3387       | 1.044         | -0.4994       |
| 53 | 1           | 1.056        | 0.7959        | 0.9159       | 0.4066       | 1.506        | 0.3772        | 0.27          | -0.5734       |
| 54 | -0.4304     | 0.9356       | 2.186         | 2.096        | 1.796        | 2.206        | 0.5969        | 0.9497        | -1.364        |
| 55 | 0.01027     |              | -0.4338       | -0.06375     | -0.7031      | 0.3762       | 0.3875        | 0.6203        | -0.3631       |
| 56 | 1.32        | 0.6357       |               |              | 0.006328     | 1.156        | 0.407         | 0.3398        | -0.4537       |
| 57 | -0.3872     | 0.8587       | 0.8287        | 0.4988       | -0.3706      | 0.4688       | 0.23          | 0.05281       | -1.081        |
| 58 | -0.531      | 0.705        | 0.345         | 0.535        | 0.6056       | 0.665        | 0.4663        | 0.08906       | -0.4944       |
| 59 | 0.2653      | 0.8612       | -0.2388       | -0.2087      | 0.4919       | 0.4513       | 0.1725        | -0.2547       | 0.07187       |
| 60 | -0.826      | 0.54         | 0.07          | -0.19        | 0.6706       | 0.34         | 0.2113        | -0.07594      | -0.1194       |
| 61 | 0.1212      | 2.167        | 0.5272        | 0.5972       | 0.3778       | 0.7072       | 1.068         | 0.9712        | -0.3522       |
| 62 | -0.646      | 0.83         | 0.36          | 0.56         | 0.6206       | 0.78         | 0.6213        | 0.6841        | -0.2794       |
| 63 | 0.7         | 1.626        | 0.04594       | 0.2959       | 0.8866       | 1.246        | 0.4872        | 0.69          | -0.3234       |
| 64 | 0.07652     | 0.5425       | 1.172         | 1.153        | 0.6931       |              |               |               | -0.006875     |
| 65 | 1.114       | 1.96         | 0.11          | 0.11         | 0.9306       | 1.81         | -0.03875      | 0.5041        | -0.05937      |
| 66 | -0.241      | 1.185        | -0.275        | 0.315        | -0.3744      | 1.305        |               | 0.9491        | -0.5444       |
| 67 | 0.994       | 2.69         | -0.29         | -0.03        | 0.3606       | 0.85         | 0.1713        | 0.4741        | -1.079        |
| 68 | -0.651      | 1.325        | -0.385        | -0.765       | -0.6744      | 0.355        | 0.3063        | 0.5291        | -0.3344       |
| 69 | -0.01348    | 1.352        | -0.1575       | -0.0275      | 0.2331       | 0.6825       | 0.5937        | 0.9066        | -0.6269       |
| 70 | 0.304       | 0.9          | -0.31         | 4.22E-08     | 0.1006       | 0.69         | -0.2087       | 0.6241        | -0.4494       |
| 71 | -0.351      | 0.605        | 0.175         | 0.295        | 0.1956       | 0.205        | 0.7462        | 0.4291        | 0.1756        |
| 72 |             | 0.1948       | 0.5248        | 0.4348       | 0.5855       | -0.1752      |               | 0.3389        | 0.9555        |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 73  | -0.3282     | 0.6778       | 0.01781       | 0.2278       | -0.1016      | -0.5222      | 0.6991        | 2.102         | 0.2384        |
| 74  | 0.02643     |              | -0.0676       | 0.0124       | 0.583        | 0.5324       | 1.204         | 0.7165        | 0.563         |
| 75  | -1.592      | 0.8744       | 0.7544        | 0.9744       | 0.245        | 1.424        | 1.306         | 1.048         | 0.285         |
| 76  | -1.911      | 0.8953       | 1.235         | 1.025        | 0.6259       | 1.465        | 1.337         | 0.8394        | 0.3759        |
| 77  | -1.019      | 0.9666       | 0.3866        | 0.3766       | 1.207        | 1.507        | 0.9378        | 0.6106        | 0.5172        |
| 78  | -1.606      | 0.39         | -0.01         | -0.01        | 0.4406       | 0.24         | 0.8413        | 2.284         | 0.6806        |
| 79  | -1.904      | 1.052        | 0.3522        | 0.2222       | 0.1928       | 0.4222       | 1.853         | 1.126         | 0.9028        |
| 80  | -2.553      | 1.133        | 0.3927        | 0.4427       | -0.2266      | 0.1527       | 1.434         | 1.117         | 0.7334        |
| 81  | -0.236      | 0.55         | 0.19          | 0.17         | 0.4906       | 0.66         | 0.7613        | 0.5241        | 0.5506        |
| 82  | -3.166      | 0.57         | -0.84         | -1.05        | 0.1206       | -0.3         | 0.9813        | 0.5141        | 0.7106        |
| 83  | -2.756      | 0.28         | -0.56         | -0.47        | 0.09063      | 0.02         | 0.7713        | 0.3941        | 0.8306        |
| 84  | -1.381      | 0.255        | -0.135        | -0.375       |              | 0.425        | 0.5963        | -0.1109       | 0.2556        |
| 85  | -1.413      | 0.0825       | 0.3625        | 0.3025       | -0.01688     | 0.3325       | 0.7337        | 1.087         | 1.013         |
| 86  | -1.266      | 0.52         | 0.02          | 0.07         | -0.06937     | 0.54         | 1.541         | 1.144         | 1.311         |
| 87  | -2.031      | 0.095        | -0.735        | -0.705       | -0.4244      | -0.055       | 0.8863        | 0.6891        | 0.5756        |
| 88  |             | 0.5939       | 0.6639        | 0.6539       | 1.385        | 1.044        | 0.9952        | 0.638         | 0.4245        |
| 89  | -1.001      | 0.525        | 0.705         | 0.745        | 0.1456       | 0.735        | 0.8863        | 0.6291        | 0.6156        |
| 90  |             | 1.614        | 1.924         | 1.974        | 1.065        | 1.674        | 1.925         | 0.8781        | 1.205         |
| 91  | -1.028      | -1.002       | -0.212        | -0.232       | 1.039        | -0.782       | -0.1207       | -0.007891     | 0.008672      |
| 92  | -1.317      | -1.201       | -0.5107       | -0.6707      | 1.07         | -0.8507      | 0.1005        | 0.5034        | 0.4399        |
| 93  | -0.5182     | 0.6678       | 0.5378        | 0.2178       | 0.5884       | -0.09219     | 0.5191        | 0.5219        | 0.6184        |
| 94  | 1.463       | 1.249        | -0.01086      | -0.04086     | 0.8898       | 0.3991       | 1.53          | 0.9132        | -0.06023      |
| 95  | -1.446      | 0.99         | -0.06         | -0.04        | 0.3106       | 0.74         | 0.4313        | 0.1341        | -0.2694       |
| 96  | -1.566      | 0.39         | 0.58          | 0.51         | 0.2406       | 0.4          | 0.3113        | 0.3041        | 0.09062       |
| 97  | -0.946      | 0.72         | 0.86          | 0.95         | 1.031        | 0.57         |               | 0.6741        | 0.4106        |
| 98  | 0.2634      | 1.019        | 0.8994        | 0.9594       | 0.67         | 0.2494       | 0.3206        | 0.4434        | 0             |
| 99  | -1.017      | 0.1594       | 0.8994        | 0.5294       | 0.46         | -0.1606      | 0.1506        | 0.2834        | -0.16         |
| 100 | -1.036      | 0.44         | 0.26          | 0.28         | 0.3306       | -0.19        | 0.2413        | 0.6041        | 0.03063       |
| 101 | -0.4838     | 0.3622       | 0.5422        | 0.2722       | 0.6228       | 0.3122       | 0.3934        | 0.6362        | -0.1072       |
| 102 | -2.105      | 0.4411       | 0.3011        | 0.1411       | 0.1617       | -0.2389      | 0.5123        | 0.3252        | 0.2817        |
| 103 | -1.342      | -0.07563     | 0.3244        | 0.5144       | -0.025       | -0.1356      | -0.004375     | 0.3084        | 0.125         |
| 104 | -1.006      | 0.34         | 0.12          | 0.24         | 0.01063      | 1.03         | 0.1513        | -0.03594      | -0.1894       |
| 105 | -1.698      | 0.3979       | 0.5379        | 0.3579       | 0.1785       | 0.9579       | 0.6791        | 0.3419        | 0.08848       |
| 106 | 0.3453      | -0.1088      | -0.2888       | -0.05875     | 0.1419       | -0.8788      | -0.5875       | -0.1947       | 2.062         |
| 107 | -0.04117    | 0.2648       | -0.0952       | -0.2352      | -0.1346      | -0.005195    | 0.1761        | -0.3011       | 1.455         |
| 108 | 0.1112      | 0.6872       | 0.3672        | 0.5172       | -0.01219     | 0.8972       | 0.4784        | 0.5012        | 0.3478        |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 109 | 0.869       | 1.355        | -0.595        | -0.705       | -0.2344      | -0.515       | 0.3963        | -0.3409       | 1.196         |
| 110 | -0.2933     | 1.683        | -0.6973       | -0.4973      | -0.1367      | -0.4073      | 0.5839        | -0.3932       | 0.9033        |
| 111 | -1.017      | 1.649        | -0.851        | -1.001       | -0.3304      | -0.581       | 0.6402        | 0.143         | 1.11          |
| 112 | -0.4337     | 0.8423       | -0.6277       | -0.6177      | -0.1971      | 0.01227      | 0.3435        | 0.03633       | 0.1029        |
| 113 | -0.8135     | 0.7025       | 0.2825        | -0.3275      | 0.2231       | 0.6625       | 0.8037        | 0.5266        | 0.6631        |
| 114 | 0.414       | 0.33         | -0.6          | -0.58        | 0.1906       | -0.33        | 0.3813        | 0.3341        | 0.02062       |
| 115 | -0.6072     | -0.4913      | 0.1187        | -0.02125     | 0.9094       | -0.7613      | 0             | 1.573         | 0.6294        |
| 116 | -0.481      | -0.695       | 0.155         | 0.085        | 1.106        | -0.745       | 0.1463        | 1.429         | 0.8456        |
| 117 | -0.4777     | -0.6817      | 0.2183        | 0.4283       | 1.419        | -0.7217      | 0.1495        | 1.572         | 1.349         |
| 118 | -1.539      | -0.1928      | 0.3172        | -0.03281     | -0.9622      | -0.3328      | 0.9584        | 0.1712        | 0.2378        |
| 119 |             | 1.157        | 1.487         | 1.488        | 0.8581       | 1.188        | 0.9288        | 1.042         | 0.008125      |
| 120 | -1.626      | 1.34         | 0.9705        | 0.9205       | 0.2811       | 1.26         | 1.382         | 0.8345        | 0.8111        |
| 121 | -1.056      | 0.89         | 1             | 0.88         | 0.8406       | 1.16         | 0.9913        | 0.5941        | 1.361         |
| 122 | -1.663      | 0.6328       | -0.1372       | -0.1272      | -0.6866      | 0.6328       | 0.2441        | 0.4769        | -0.1566       |
| 123 | 2.276       | 0.6822       | -0.4478       | -0.5278      | 0.5728       | 0.6722       | 1.093         | 1.676         | 0.2228        |
| 124 | -1.081      | 0.185        | -0.365        | 0.065        | 0.4656       | 0.645        | 0.5363        | -0.4509       | -0.4944       |
| 125 |             | -0.2671      |               |              | 0.1635       | -0.3671      | 0.06414       | 0.09695       | -0.03648      |
| 126 | 0.2503      | 0.3362       | 0.2862        | 0.1563       | 0.5269       | 0.5463       | 0.3575        | 0.4203        | -0.2031       |
| 127 | 0.05121     | 0.2472       | 0.3672        | 0.3772       | 0.4078       | 0.2672       | 0.2484        | 0.1112        | -0.08219      |
| 128 | 0.008555    | 0.9145       | 0.6545        | 0.7045       | 0.7252       | 1.275        | 1.006         | 0.6086        | -0.6048       |
| 129 | 0.6992      | 0.1552       | -0.5948       | -0.3348      | -0.5542      | -0.03484     | -0.04359      | -0.1908       | 0.7558        |
| 130 | 0.5228      | 0.6687       | -0.5213       | -0.4012      | -0.04062     | 0.3488       | 0.73          | -0.1372       | -0.5006       |
| 131 | 0.719       | 0.435        | 0.185         | 0.595        | -0.7344      | 0.935        | 0.1263        | 0.3891        | -0.7644       |
| 132 | -0.516      | -0.16        | -0.2          | -0.11        | -0.6794      | 0.44         | 0.2913        | 0.2241        | -0.5294       |
| 133 | 1.855       | 0.1909       | 0.5509        | 0.2009       | -0.2284      | 0.6809       | -0.5378       | -0.025        | -1.078        |
| 134 |             | 0.3023       | -0.8977       | -0.2977      | -0.6971      | -0.4377      | 0.3635        | -0.2537       | 1.683         |
| 135 |             | 0.3063       | -0.1637       | 0.1563       | -0.3331      | -0.1537      | -0.0125       | 0.0003125     | 1.447         |
| 136 |             |              | 0.3633        | 0.5533       | 1.464        | 2.593        | 1.055         | 0.9073        | -0.4961       |
| 137 | 0.005742    | 0.8217       | 0.4617        | 0.7817       | 0.6923       | 1.672        | 0.493         | 0.5958        | -0.2377       |
| 138 | -0.6079     | -0.692       | -0.132        | -0.172       | 0.4987       | 0.968        | -0.0407       | 0.3721        | -0.1413       |
| 139 | 0.3565      | 0.1725       | 0.8225        | 0.3225       | 0.03312      | 0.3425       | 0.5037        | 0.9466        | 0.1331        |
| 140 | -0.331      | -0.015       | 0.335         | 0.395        | -0.6844      | 1.805        | 1.176         | 0.5691        | 1.466         |
| 141 | -2.234      | -0.2477      | 0.2023        | 0.2623       | -0.07711     | 0.3223       | -0.8365       | -0.4837       | 0.01289       |
| 142 | -2.016      | 0            | 0.11          | -0.05        | 0.8006       | -0.71        | 0.5913        | 0.4241        | 0.07063       |
| 143 | -3.559      | -3.223       | -0.7328       | -0.6628      | -0.9122      | -2.483       | -2.162        | -2.109        | 0.1678        |
| 144 | -1.451      | -0.605       |               |              | -0.6544      | -0.015       | -1.074        | -0.7509       | -0.8144       |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 145 | 0.3418      | 0.007812     | -0.1122       | -0.1422      | 0.6184       | 0.4278       | 0.3391        | 0.1019        | 0.2184        |
| 146 | -0.6188     | -0.002813    | 0.06719       | -0.1728      | -0.08219     | -0.09281     | 0.5284        | 0.1512        | 0.3078        |
| 147 | -0.7791     | 0.6968       | -1.053        | -0.3332      | -1.313       | 0.7668       | -1.182        | -1.559        | -1.203        |
| 148 |             | -0.06        | -3.31E-08     | 0.28         | 0.1206       | 0.41         | -0.3787       | 0.2241        | -0.08938      |
| 149 | -2.616      | -0.09        | -0.5          | -0.33        | -0.6494      | -1.02        | 0.3113        | 0.5741        | 0.2206        |
| 150 | -3.136      | 0.6197       | -0.07031      | 0.1597       | 0.2603       | 0.3197       | 0.8609        | -0.1163       | 0.02031       |
| 151 | -0.8988     | 0.1072       | 0.2572        | 0.2472       | -0.1822      | 0.9172       |               | -0.1488       | 0.3078        |
| 152 | -1.521      | 0.345        | -0.025        | 0.345        | 0.2956       | 0.835        | 0.7163        | 0.2391        | 0.3356        |
| 153 | -1.631      | 0.805        | 0.315         | 0.125        | 0.3956       | 0.985        | 0.9962        | 0.1891        | 0.3856        |
| 154 | -2.757      | 0.2394       | -0.2806       | -0.3106      | 3.12E-09     | -1.221       | 0.3206        | -0.5666       | 0.51          |
| 155 | -3.466      | 0.16         | -6.43E-09     | 0.15         | -0.5394      | -1.42        | 0.3313        | -0.1359       | -0.03938      |
| 156 | -3.276      | 0            | 0.13          | 0.12         | -0.5594      | -1.32        | 0.2313        | -0.09594      | -0.03937      |
| 157 | -2.346      | 0.64         | -0.43         | -0.56        | 0.1906       | -1.3         | 1.191         | 0.1741        | 1.561         |
| 158 | -2.377      |              | -0.2813       | -0.1212      | -0.000625    | -0.7513      | 0.48          | 0.3828        | 1.129         |
| 159 | -1.831      | -0.815       | -0.275        | 0.515        | 0.04563      | -1.815       | 0.4763        | 0.09906       | 0.8456        |
| 160 | -1.767      | -0.08137     | -0.06137      | -0.1914      | -0.4307      | -0.8814      | 0.9499        | -0.0273       | 0.5393        |
| 161 | -1.916      | -0.4603      | -0.1203       | -0.0003125   | -0.1397      | -0.1903      | 0.6409        | 0.06375       | -0.3897       |
| 162 | -0.8921     | 0.3139       | -0.6161       | -0.3261      | -0.3655      | 0.8839       | -0.4548       | 0.278         | 0.07453       |
| 163 | -0.246      | -0.13        | -0.37         | -0.5         | -0.5194      | -0.53        | 1.041         | 0.9941        | 0.7706        |
| 164 | -0.5702     |              | -0.2242       | -0.4342      | -0.5536      | -0.2842      | 1.017         | 0.9198        | 0.7664        |
| 165 | -0.7266     | 0.2194       | 0.6294        | 0.1794       | -0.87        | 0.8894       | 0.1206        | 0.4434        | 0             |
| 166 | -1.036      | 0.54         | -6.43E-09     | -0.14        | -0.03937     | 0.78         | 1.131         | 1.294         | -0.6794       |
| 167 | -1.486      | 1.49         | 0.32          | 0.45         |              | 1.54         | 0.7213        | 1.064         | -0.8994       |
| 168 | -2.686      | 1.82         | 0.92          | 0.72         | 0.3406       | 1.79         | -0.3487       | 0.9341        | -2.369        |
| 169 | 1.022       | 1.038        | 0.6679        | 0.4479       | -0.01145     | 1.008        | 0.00918       | 0.762         | -0.7214       |
| 170 | -2.138      | -0.1621      | 2.038         | 1.888        | 0.2085       | 1.488        | 0.7491        | 0.732         | -1.271        |
| 171 | -1.696      | 1.25         | 1.52          | 1.81         | 0.06063      | 0.7          | -0.2987       | 1.224         | 0.1806        |
| 172 |             | 0.625        | 0.735         | 0.925        | 1.036        | 0.795        | 0.7062        | 1.119         | -0.2744       |
| 173 | -2.188      | 0.7083       | 0.1483        | 0.4883       | -0.2011      | -0.5317      | 0.6195        |               | -0.05109      |
| 174 | -0.6761     | 0.1698       | 0.4898        | 0.4298       | 0.4805       | 0.6998       | 0.6911        | 1.244         | -0.3195       |
| 175 | -0.749      | 0.147        | 0.507         | 0.677        | 0.1176       | 0.957        | 0.5282        | 0.8411        | -0.6924       |
| 176 |             | 0.5424       | 0.03242       | -0.3276      | 0.113        | 0.4424       | -1.266        |               | 0.553         |
| 177 | -0.6846     | 0.1214       | 0.1714        | 0.1314       | 0.04203      | -0.3486      | 0.2727        | 0.07547       | 0.102         |
| 178 | 1.284       | 0.28         | 0.62          | 0.69         | -0.1994      | 0.58         | -0.2787       | 0.5241        | 0.1506        |
| 179 | 2.348       | 0.1335       | 0.5035        | 0.3835       | 0.2842       | 0.9735       | -0.03521      | 0.1376        | 0.03416       |
| 180 | 2.164       | -0.07        | 0.42          | 0.31         | 0.2406       | 0.38         | -0.3087       | 0.1941        | 0.07062       |



Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 181 | 2.042       | -0.2116      | 0.4784        | 0.1784       | 0.149        | 0.4384       | -0.07039      | -0.007578     | -0.121        |
| 182 | -1.876      |              | 0.53          | 0.5          | 0.3106       | 0.59         | 0.1413        | 0.5041        | -0.04938      |
| 183 | -1.888      | 0.1077       | 0.5777        | 0.3277       | 0.7784       | 0.6877       | 0.269         | 0.6618        | -0.08164      |
| 184 | -1.151      | 0.5855       | 0.3255        | 0.2355       | 0.2961       | 0.2355       | 0.5967        | 0.4595        | 0.1761        |
| 185 | -0.6608     | 1.055        | 0.04516       | 0.1452       | -0.9442      | -1.525       | 1.336         | 0.9692        | 0.7058        |
| 186 | -0.566      | 0.41         | 0.22          | -0.16        | 1.091        | 0.28         | 0.5513        | 0.5741        | -0.6594       |
| 187 | -0.7985     | 0.5475       | 0.9475        | 0.2575       | 0.8681       | -0.5525      | 0.2388        | -0.5816       | -0.2219       |
| 188 | -1.032      | 0.1139       |               |              | 1.175        | -0.3161      | 0.1052        | 0.358         | -0.6455       |
| 189 | -0.638      | 0.718        | 1.088         | 0.668        | 1.139        | -0.08203     | 0.3092        | 1.182         | -0.8914       |
| 190 | -0.666      | 0.14         | 0.6           | 0            | 1.361        | 0.19         | 0.2912        | 0.6841        | -0.7194       |
| 191 |             | 0.2746       | 0.4146        | 0.1346       | 0.4953       | 0.2146       | 1.026         | 1.209         | 0.9053        |
| 192 | -0.37       | 0.1859       | -0.3341       | -0.3241      | 0.1266       | 0.4959       | 0.4472        | 0.29          | -0.2434       |
| 193 | -0.7814     | 1.165        | -0.1055       | -0.2455      | 0.9652       | -0.1755      | 1.516         | 1.999         | 1.505         |
| 194 | -0.2804     | 0.9256       | 0.1356        | 0.1156       | 0.7763       | 0.005625     | 1.047         | 1.12          | -0.1038       |
| 195 | -0.108      | 0.7079       | 0.1679        | 0.1879       | 0.1986       | -0.02207     | 1.189         | 1.262         | 0.6986        |
| 196 | -1.066      | 0.04045      | 0.1304        | 0.07045      | 0.5111       | 0.2004       | 0.6417        | 0.6045        | 0.3411        |
| 197 | -0.001211   | 0.4748       | -0.005234     | -0.08523     | -0.6946      | 0.09477      | 0.09602       | 0.1788        | -0.2646       |
| 198 | -0.386      | 0.87         | 0.23          | 2.67E-08     | 0.3006       | 0.14         | 0.2313        | 0.1341        | -0.4494       |
| 199 | -0.6302     | 0.3358       | 0.3758        | 0.3558       | 0.4364       | 1.446        | 0.1471        | 0.2599        | -0.3736       |
| 200 | -0.941      | 0.545        | -0.365        | -0.405       | 0.6556       | 0.945        | -0.3337       | 0.3891        | -0.9344       |
| 201 | -0.9458     |              | 0.2302        | 0.4402       | 0.2808       | 1.21         | -0.2686       | 0.2542        | -1.149        |
| 202 |             | 0.6911       | 0.9011        | 0.8711       | 0.8017       | 1.881        | 0.7523        | 0.03516       | -0.3783       |
| 203 | 0.264       | 0.57         | 0.82          | 0.72         | 0.5006       | 1.87         | 0.3913        | -0.2459       | -0.6694       |
| 204 | -0.2088     | -0.2528      | 0.7872        | 0.1972       | 0.6678       | 0.8372       | -1.232        | -0.6488       | -0.3022       |
| 205 | -2.019      |              | 0.06695       | -0.373       | -0.02242     | 0.157        | 1.198         | 0.631         | 0.7076        |
| 206 | -2.122      |              | 0.5544        | 0.4944       | 0.435        | 0.6844       | 0.02563       |               | 0.405         |
| 207 | -1.133      | -0.2172      | 0.4528        | 0.6128       | 0.4334       | 2.033        | 0.04406       | 0.2569        | 0.3434        |
| 208 | -1.243      | 1.332        | 1.532         | 1.342        | 1.653        | 2.662        | 1.324         | 0.7666        | -0.7169       |
| 209 | -0.4213     | 0.4847       | 0.3747        | 0.3847       | 0.8553       | -0.09531     | 1.586         | 1.499         | 0.9053        |
| 210 | -1.216      | 0            | 0.12          | 0.01         | 0.3606       | -0.18        | 1.411         | 1.144         | 0.5506        |
| 211 | -0.7527     | 0.5533       | 1.023         | 1.013        | 1.374        | 1.443        | 0.6045        | 0.7473        | 0.01391       |
| 212 | -0.2304     | 0.7956       | -0.2544       | -0.2744      | 0.3863       | 0.3256       | 0.6169        | 0.7097        | 0.8762        |
| 213 | -2.031      | 1.285        | 1.015         | 1.555        | 1.026        | 1.435        | 1.426         | 0.3391        | 0.3356        |
| 214 | -0.928      | 0.998        | 0.358         | 0.468        | 0.7686       | 1.198        | 0.6592        | 1.222         | 0.9586        |
| 215 | -1.503      | 0.2729       | -0.08711      | -0.2371      | -0.1665      | 0.002891     | 0.5141        | 0.847         | -0.1465       |
| 216 | -0.781      | -0.765       | 0.345         | 0.325        | 0.5456       | -1.085       | -0.07375      | 0.3591        | 1.136         |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 217 | 1.48        | 0.9761       |               | -0.06391     |              | 0.8961       |               | 0.7002        | 1.007         |
| 218 | -0.9572     | -0.7413      | 0.2187        | 0.6388       | -0.3806      | 0.09875      | 0.85          | -0.4872       | 0.5894        |
| 219 | 0.02402     | 0.33         | -0.32         | -0.24        | 0.1306       | 0.04         | 0.5013        | 0.06406       | 0.4006        |
| 220 | -2.186      | 0.44         | -0.42         | 0.01         | 0.07063      | -7.15E-09    | 1.381         | 1.194         | 0.6806        |
| 221 |             | 0.1437       | 0.5637        | 0.4638       | 0.4444       | 0.08375      |               | 0.5478        | 0.5044        |
| 222 | -1.576      | 0.72         | 0.84          | 0.75         | 0.3906       | 0.8          | 0.9713        | 0.4941        | 0.2806        |
| 223 | -2.503      | 0.0325       | 0.8525        | 1.212        | 0.5831       | 0.5425       | 1.104         | 0.8866        | -0.2269       |
| 224 |             | 0.4383       | 1.508         | 1.098        | 0.9889       | -0.1717      | 0.3895        | 0.1423        | 0.2689        |
| 225 | -0.4819     | 0.2341       | 0.6341        | 0.3841       | 0.09469      | -0.1559      | -0.01469      | 0.9781        | 0.6947        |
| 226 | 0.979       | 0.025        | 1.485         |              | -0.2944      | 1.275        | 0.6963        | 0.2791        | 0.8956        |
| 227 | -0.241      | 0.375        | 0.475         | 1.315        | 0.5656       | 0.775        | 1.006         | 0.8491        | 0.8356        |
| 228 | -0.326      | 0.24         | 0.56          | 0.66         | -0.4094      | 1.03         | -0.02875      | 0.1041        | 0.9406        |
| 229 | 1.144       | 1.09         | 1.19          | 1.71         | -0.04937     | 1.17         | 1.431         | 1.184         | 1.261         |
| 230 | -0.1257     | 0.5903       | 1             | 1.01         | 0.6909       | 0.9003       | 0.9516        | 0.9644        | 0.07094       |
| 231 | -0.2601     | 0.6759       | 0.7959        | 1.086        | 0.8865       | 0.8659       | 1.017         | 1.21          | -0.03352      |
| 232 | -0.281      | 0.555        | 0.025         | -0.055       | 0.6756       | 0.705        | 0.8263        | 0.7191        | 1.146         |
| 233 | 0.08715     | -0.04688     | -0.9369       | -0.6869      | 0.01375      | 0.003125     | 0.3444        | 0.3972        | 0.7937        |
| 234 | 1.104       | 0.74         | 0.62          | 0.58         | 0.9006       | 1.17         | 0.5113        | 1.124         | 0.5206        |
| 235 | 1.401       | 0.487        | 0.797         | 1.027        | 0.7876       | 0.997        | 0.4182        | 0.881         | 0.1776        |
| 236 | -1.207      | 0.6694       | 1.559         | 1.619        | -0.61        | 1.809        | -0.01937      | 0.9234        | -1.07         |
| 237 | -0.3704     | 0.2056       | -0.03438      | 0.1656       | 0.1863       | 0.4056       | 0.5269        | 0.6597        | 1.746         |
| 238 | 0.1118      |              | 0.2878        | 0.1478       | -0.8516      | 0.2378       | 1.439         | -0.09813      | 0.9584        |
| 239 | -0.6613     | 0.004687     | 0.1547        | -0.03531     |              | -0.09531     | 1.146         | 1.179         | -0.004687     |
| 240 | -0.7047     | 0.3212       | 0.4512        | 0.5513       | 0.2819       | 0.2913       | -0.2075       | -0.2547       | 0.7719        |
| 241 | -0.8998     | 0.3162       | 0.5962        | 0.5762       | 0.0268       | 0.1862       | -0.05258      | -0.009766     | 0.7468        |
| 242 | 0.244       | 0.08         | 0.66          | 0.91         | 0.6406       | -0.04        | 0.1013        | -0.04594      | 0.4906        |
| 243 | -0.8447     | 0.2112       | 0.7012        | 0.4913       | 0.5819       | 0.1913       | 1.333         | 0.9253        | 0.1819        |
| 244 | 0.8046      | 0.3505       | 0.9205        | 0.5605       | 1.281        | 0.6305       | 0.9618        | 0.5946        | 0.6912        |
| 245 | -0.7285     | 0.2475       | 1.148         | 1.088        | 0.5381       | 1.378        | 0.3688        | -0.05844      | 0.8781        |
| 246 | -0.4614     | -0.2155      | 0.3145        | 0.5445       | 0.1952       | 0.2045       | 1.206         | 0.3086        | 0.4652        |
| 247 | -0.5642     | 0.4118       | 0.4018        | 0.1418       | 0.6224       | 0.08178      | 0.003027      | -0.3542       | 0.0324        |
| 248 | -0.2818     | 0.8241       | 1.154         | 0.5841       | 0.1248       | 0.6741       | 0.09539       | 0.8082        | -0.2252       |
| 249 | 0.509       | 0.585        | 0.265         | 0.855        | -0.1744      | 1.095        | 0.00625       | 0.5591        | 0.1256        |
| 250 | 1.691       | 0.006953     | 0.707         | 0.287        | -0.1624      | 1.587        | 1.028         | 1.241         | -0.4624       |
| 251 | 0.7623      | 0.5883       | 1.068         | 1.128        | -0.6111      | 1.268        |               | 0.2823        | 0.05891       |
| 252 | 0.479       | 0.555        | 1.235         | 1.035        | 0.2156       | 1.675        | 0.02625       | 0.3091        | -0.1344       |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
| 253 | -0.116      | 1.55         | -0.61         | -0.65        | 0.9606       | 0.37         | -0.2487       | 0.4341        | 1             |
| 254 | -1.781      | 0.6949       | -0.351        | -0.1151      | 0.6455       | 0.6349       | 0.7362        | -0.451        | -0.6694       |
| 255 |             | 0.1022       | -0.4778       | -0.7078      | 2.753        | 1.812        | -0.1166       | -0.4338       | 0.1755        |
| 256 |             | 0.9536       | -0.6064       | -0.3564      | 1.564        | 0.2636       | -0.5152       | -0.06234      | -0.4372       |
| 257 | -1.219      | 0.8668       | -1.033        | -0.7932      | 0.2274       | -0.9932      | -1.062        | -1.049        | -0.4858       |
| 258 |             | 0.2183       | -0.8517       | -0.7206      | 0.1189       |              | -1.35         | -0.3677       | 0.5674        |
| 259 |             | -1.031       | -0.7506       | -0.4212      | -0.36        |              |               |               | -0.5411       |
| 260 | -1.197      | -0.4913      | -0.4113       | 0.0125       | 0.3794       | 0.00875      | 0.02          | 0.06281       | -0.41         |
| 261 | 0.3365      | 0.2025       | -0.0675       | -0.2161      | -0.03687     | 0.3425       | 0.6838        | 0.3966        | -0.4406       |
| 262 | -1.972      | 0.1639       | 0.003906      | -0.4339      | -0.5533      | -0.6639      | 0.1552        | -0.212        | 1.533         |
| 263 | 0.1801      | -0.1839      | -0.4339       | 0.035        | 0.3256       | 0.215        | 0.4773        | 0.3202        | 0.1945        |
| 264 | 0.769       | 0.325        | -0.205        | -0.1817      | -0.5711      | -0.4817      | 0.3463        | 0.1691        | 0.3567        |
| 265 | 0.3923      | 0.5383       | -0.3617       | -0.8272      | -0.8366      | -0.6772      | 0.1995        | 0.3823        | 0.7156        |
| 266 | 0.4968      | -0.4772      | -0.9872       | -0.0926      | -0.912       | -0.002598    | -0.5159       | -0.4531       | 1.769         |
| 267 | 0.3214      | 0.1874       | -0.2326       | -0.6339      | -0.9033      | -0.4639      | 0.1487        | 0.8415        | 1.813         |
| 268 | 0.4801      | -0.2339      | -0.7239       | -0.1072      | 1.993        | 0.4222       | 0.1973        | -0.3799       | 0.558         |
| 269 | 1.426       | 1.522        | 0.9522        | 0.05359      | 0.1042       | -0.1764      | 2.553         | 2.536         | 0.1867        |
| 270 | 0.007617    | 0.5236       | 0.2036        | 0.6763       | -0.2331      | 1.446        | 0.08484       | 0.04766       | 2.193         |
| 271 | -1.29       | 0.4163       | 0.3063        | 0.06         | -0.3494      | 0.84         | 0.5175        | 0.5203        | -0.5658       |
| 272 | -0.506      | -0.49        | 0.01          | 0.4559       | 0.5965       | -0.004141    | 0.7313        | 0.7641        | 0.9869        |
| 273 |             | -0.1441      | -0.3841       | 0.08914      | 0.3398       | 0.5891       | 1.117         | 0.5499        | 0.2606        |
| 274 | 0.3332      | -0.4209      | 0.2891        | -0.54        | -1.099       | -0.43        | -0.4196       | -0.5168       | 0.1565        |
| 275 | 0.564       | -0.04        | -0.8          | -0.3479      | 0.02277      | 0.1421       | -0.06875      | -0.7059       | -0.2102       |
| 276 | 0.3962      | -0.4879      | -0.08785      | -0.04        | 0.1506       | -1.12        | -0.5466       | -0.3438       | -0.3394       |
| 277 | -2.176      |              | 0.03          | 0.4794       | 0.1884       | -0.8106      | -0.04875      | 2.214         | -0.8972       |
| 278 | -1.577      |              | 0.6794        | 0.05781      | 1.54         | -0.1822      | 0.4606        | 1.173         | -0.9394       |
| 279 |             | 0.007812     | -0.2322       | 0.04         | 0.09063      | 0            | 0.05906       | -0.1281       | 0             |
| 280 | 1.104       | 0.32         | 0.11          | -0.5         | 0.3906       | 0.18         | 0.5413        | 0.4641        | 0.01844       |
| 281 | 1.294       | 0            | -0.12         | -0.1522      | -0.2816      | 0.1478       | -1.989        | 0.2541        | 0.5406        |
| 282 | -0.7482     | -0.07219     | -0.1522       | -0.1653      | -0.3047      | -0.6653      |               | -0.01813      | 0.8306        |
| 283 | 0.02871     | 0.5147       | -0.2353       | -0.71        |              | -0.47        | 0.4713        | 0.3041        | 0.2184        |
| 284 | 0.114       | 0.08         | -0.91         | 0.5672       | 0.6778       | 0.01719      | 0.8684        | 0.4812        | 0.2653        |
| 285 | 0.1312      | -0.1328      | 0.5172        | 0.6025       | 0.5931       | 0.7425       | 0.5238        |               | -0.4194       |
| 286 |             | -0.0075      | 0.4125        | 0.5955       | 0.5861       | 0.9255       | 0.8468        | 1.03          | 1.078         |
| 287 | 0.6495      | -0.1345      | 0.4855        | -0.02062     | 0.09         | -0.05063     | -0.3494       | -0.5866       | -0.8369       |
| 288 | 0.1234      | -0.4806      | -0.08063      |              |              |              |               |               | -0.6239       |
|     |             |              |               |              |              |              |               |               | -0.42         |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 289 | 0.2278      | 0.2237       | 0.3237        | 0.3738       | 0.1644       | 1.884        | 0.905         | 0.2078        | -             |
| 290 | 4.45        |              | 2.436         | 2.436        | 1.296        | 2.686        | 2.187         | 1.68          | 1.784         |
| 291 | 2.72        | 0.7059       | 1.706         | 1.616        | -0.09352     | 1.336        | 1.207         | 0.9399        | 2.506         |
| 292 | 1.874       |              | 1.02          |              | 1.371        | 1.43         | 0.9013        | 0.3841        | 1.776         |
| 293 | 1.193       |              | -0.3514       | 0.01859      | 0.07922      | -0.001406    | -0.2302       | -0.3573       | -0.1894       |
| 294 | 0.03402     | 0            | -0.3          | -0.01        | -0.09937     | -0.16        | -0.2587       | -0.6359       | -0.03078      |
| 295 | 1.144       |              | 0.44          | 0.33         | 0.1506       | -1.03        | -1.079        | -0.3159       | 0.5006        |
| 296 | 0.9788      | -0.7752      | 0.5748        | 0.4448       | 0.1054       | -0.5352      | -0.7339       | 0.1389        | -1.109        |
| 297 | -0.004258   | -0.5483      | 0.4717        | 0.5917       | 1.512        | -0.2783      | -0.407        | 0.2358        | -1.245        |
| 298 | 0.104       | -0.91        | 0.56          | 0.58         | 1.021        | -0.73        | -0.4887       | 0.2741        | -0.3677       |
| 299 | 2.942       | 0.5478       | 0.4278        | 0.5278       |              | 0.8878       | -1.141        | -0.1281       | -0.7294       |
| 300 | 0.2665      | 0.4425       | 0.3325        | 0.6525       | 0.7731       | 0.5825       | 1.414         | 1.377         | -0.2316       |
| 301 | 0.724       | 1.34         | 0.15          | 6.13E-09     |              | 1.22         | 1.131         | 0.3341        | 1.033         |
| 302 | -0.264      | 0.742        | 0.842         | 0.952        | 0.5226       | 2.592        | -0.0568       | -0.314        | 1.011         |
| 303 |             | -0.1875      | -0.5075       | -0.5475      | 0.2631       | -0.2075      | 0.1438        | 0.6366        | -1.877        |
| 304 | -0.4302     | 0.9158       | 0.02582       | 0.2658       | 0.2464       | 0.3458       | 1.297         | 0.6899        | -0.6769       |
| 305 | -0.326      | 0.84         | -0.05         | 0.19         | 0.1106       | 0.5          | 1.111         | 0.5541        | -0.003555     |
| 306 | -0.0916     | 0.03437      | -0.3156       | -0.3456      | 0.075        | -0.6856      | 0.3356        | -0.4616       | -0.009375     |
| 307 | -0.506      | -0.16        | 0.41          | 0.29         | 0.3606       | 0.25         | -0.02875      | -0.07594      | 0.315         |
| 308 | 0.9214      | -0.2927      | 0.08734       | -0.7627      | 0.458        | -0.4227      |               | 0.3114        | 0.4306        |
| 309 | 0.4315      | -0.2125      | -0.6625       | -0.7425      | -0.6719      | -0.2325      | 0.1788        | 0.5616        | 0.158         |
| 310 | 1.309       | -0.2354      | -0.4454       | -0.5054      | 0.3453       | 0.3046       | -0.6941       | -0.6113       | -0.08187      |
| 311 | 0.6843      | -0.5497      | -0.4497       | -0.7097      | -0.2591      | 0.02031      | -0.5384       | -0.7756       | 0.05527       |
| 312 | 0.674       | -0.09        | -0.4          | -0.47        | -0.2694      | 0.02         | -0.1787       | 0.04406       | 0.5909        |
| 313 | 0.7984      | -0.3556      | -0.5656       | -0.4456      | 0.065        | 0.1144       | -0.4544       | -0.4616       | 1.151         |
| 314 | 0.8601      | -0.5339      | -0.4339       | -0.3039      | -0.2233      | 0.02609      | -0.6327       | -0.4498       | 0.425         |
| 315 | 0.8444      | -0.4296      | -0.5896       | -0.6196      | -0.0902      | 0.2504       | -0.5984       | -0.6556       | 0.7267        |
| 316 | -0.276      | 0.06         | 1.09          | 0.45         | 0.4906       | 0            |               | -0.1259       | 0.781         |
| 317 | -0.6635     |              | 0.4125        | 0.5125       | 1.263        | -0.6175      |               | -1.093        | 1.381         |
| 318 |             |              | -0.32         | 0.39         | 0.7206       | -0.39        | -1.249        | -1.366        | 0.8131        |
| 319 | -0.471      | -0.635       | -0.035        | 0.285        | 0.8456       | -0.855       | 0.02625       | -0.4709       | 0.6706        |
| 320 | -0.8186     | -0.9727      | -0.2027       | 0.06734      | 0.138        | -0.2327      | -0.1614       | -0.2686       | -0.2144       |
| 321 | -0.08879    | -0.5928      | 0.4372        | 0.4972       | 0.4778       | 0.8072       |               | -0.04875      | -0.132        |
| 322 | 0.149       | 0.125        | -1.025        | -0.755       | -0.04437     | -0.205       | 0.2963        | 0.08906       | 0.3578        |
| 323 | 0.4498      | 0.05578      | -0.1942       | -0.2342      | -0.3636      | -0.2742      | 0.06703       | -0.2702       | 0.8756        |
| 324 | 0.974       | 2.24         | 0.59          | 0.32         | -0.1894      | 0.23         | -0.3087       | -0.7259       | 0.8464        |
|     |             |              |               |              |              |              |               |               | 0.7006        |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 325 | 0.999       | 1.785        | 0.645         | 0.695        | 0.1256       | 0.335        | -0.2237       | -0.3409       | 0.7256        |
| 326 | -0.1774     | 1.199        | 0.3386        | 0.5986       | 0.4592       | 0.2286       | 0.06984       | 0.1327        | 0.7392        |
| 327 | 1.186       | -0.02781     | 0.1122        | 0.06219      | 0.01281      | 0.9122       | -0.01375      | -0.01375      | 0.9428        |
| 328 | 1.796       |              | 0.6422        | 0.6122       | -0.07719     | 0.7622       | -0.6366       | 0.05625       | 1.273         |
| 329 | 1.314       | 0.3          | 0.46          | 0.67         | 0.2406       | 1.02         | 0.09125       | 0.09406       | 1.181         |
| 330 | 1.916       | 1.022        | 0.9122        | 0.7322       | 0.6428       | 1.132        | 0.4834        | 0.1762        | 1.423         |
| 331 | 0.604       | 0.63         | 0.09          | 0.29         | 0.5506       | 0.27         | 1.161         | 0.8341        | 0.3906        |
| 332 | 0.01652     | -0.0175      | 0.4925        | 0.2025       | 1.193        | -0.0075      | 0.01375       | -0.1334       | 0.5731        |
| 333 | -0.481      | -0.235       | -0.215        | -0.035       | 0.5956       | -0.455       | -0.1137       | -0.6209       | 0.07563       |
| 334 | -0.926      | -2.98E-08    | -0.31         | 0.04         | -0.3294      | 0            | 0.1413        | -0.01594      | -0.1394       |
| 335 | 1.27        | 0.1561       | 1.506         | 1.516        | 0.1267       | 0.06609      | 0.1773        | -0.3798       | -0.1633       |
| 336 | 0.7693      | 0.4753       | 0.2353        | 0.1853       | -0.2341      | 0.1053       | -0.1235       | -0.4907       | 0.6959        |
| 337 | -0.1285     | 0.2875       | 0.6975        | 0.7475       | 0.8281       | 0.9975       | 1.299         | 0.9616        | 0.3981        |
| 338 | 0.2097      | -0.1843      | 1.326         | 1.086        | 1.376        | -0.0943      | -0.623        | -0.1702       | -0.8337       |
| 339 | -0.486      | 0.36         | -0.34         | -0.42        | 0.8606       | 1.36         | 0.05125       | -0.6659       | -0.2794       |
| 340 | 1.134       | 0.92         | 1.01          | 0.84         | 1.071        | 1.17         | 0.9513        | 0.8841        | 0.2806        |
| 341 | 0.639       | 0.975        | 0.825         | 0.795        | 1.186        | 1.015        | 1.276         | 0.9391        | 0.5256        |
| 342 | 0.3654      | 1.701        | 1.731         | 1.871        | 1.436        | 1.491        | 1.673         | 1.195         | 0.272         |
| 343 | 1.11        | 0.5955       | 1.156         | 1.566        | 1.671        | 0.9155       | 0.7868        | 0.6496        | 1.406         |
| 344 | 1.194       | 0.83         | 1.51          | 1.68         | 1.671        | 1.28         | 0.8813        | 0.9641        | 1.621         |
| 345 | -0.3488     | 1.177        | 0.09719       |              | 0.07781      | -0.1028      | -0.2216       |               | 0.2578        |
| 346 | -0.466      | 0.77         | 0.18          | 0            | 0.2306       | -0.09        | -0.09875      | -0.4759       | 0.2006        |
| 347 | 1.434       | -0.14        | 0.17          | 0.31         | 0.5306       | 0            | -0.07875      | 0.6741        | 0.6506        |
| 348 | 0.4518      | 0.3778       | 0.2978        | 0.4078       | 0.07844      | 0.4078       | -0.1609       | -0.2381       | -0.07156      |
| 349 | -0.1685     | 0.6975       | 0.2775        | 0.5175       | 0.6681       | 0.6075       | 0.3288        | 0.5216        | 0.2881        |
| 350 | -1.116      | 0.42         | -0.26         | -0.21        | 0.2306       | 0.11         | 0.02125       | -0.1759       | 0.5506        |
| 351 | -1.3        | -0.1842      | 0.2158        | 0.3758       | 1.936        | -0.04422     | 0.457         | 0.5398        | 1.066         |
| 352 | -0.6025     | 0.6035       | 0.8835        | 0.9635       | 0.4141       | 0.9935       | 0.4947        | -0.06244      | 0.9641        |
| 353 |             | 0.6          | 0.64          | 0.33         | 1.321        | 0.83         | 0.1413        | -0.1959       | 1.531         |
| 354 | -1.001      | -0.305       | 0.225         | 0.225        | 0.2956       | -0.275       | -0.5837       | -0.3909       | 2.156         |
| 355 | 0.6265      | 0.4525       | -0.7275       | -0.7475      | 0.07313      | -0.6175      | 0.3938        | -0.1134       | 0.3431        |
| 356 | 0.892       | 0.488        | -0.372        | -0.522       | 0.4086       | 0.128        | 0.8392        | 1.152         | 0.5886        |
| 357 | 1.051       | 0.09719      | -0.06281      | 0.1572       | 0.5178       | 0.3572       | 0.6184        | 1.621         | 0.9378        |
| 358 | 1.666       | 0.9223       | -0.03773      | 0.1523       | 1.383        | 0.9023       | 0.9335        | 2.336         | 0.3829        |
| 359 | 1.29        | 0.2364       | 0.07641       | 0.08641      | 1.617        | 0.6164       | 1.008         | 1.99          | 0.587         |
| 360 | -0.5021     | 0.1339       | 0.2939        | 0.4339       | 0.4745       | 0.3939       | 0.8952        | 0.778         | 1.545         |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 361 | -0.241      | 0.835        | 0.555         | 0.775        | -0.1444      | 0.705        | 1.256         | 0.8491        | 0.8456        |
| 362 | -0.2799     | 0.1661       | 0.08609       | 0.3061       | -0.1833      | 0.04609      | 0.5873        | 0.1202        | 0.3667        |
| 363 |             | 0.3425       | 0.2025        | 0.2325       | 0.07313      | 0.5325       | 0.5338        | 0.6066        | -0.01688      |
| 364 | 0.1565      | 0.0525       | 0.3125        | 0.3925       | 0.1231       | 0.6525       | 0.05375       | 0.03656       | 0.003125      |
| 365 | 0.494       | 0.35         | -0.37         | -0.44        | 0.2406       | -0.01        | 0.4013        | 0.2241        | -0.02938      |
| 366 | -0.3957     | 0.1603       | -0.7497       | -0.2097      | -0.1791      | 0.3303       | 0.3816        | 0.3144        | -0.1691       |
| 367 | 2.424       | 0.7          | -2.72E-08     | 1.82E-08     | 0.2106       | 0.36         | 0.9513        | 0.8941        | 0.2606        |
| 368 | -0.07746    | 0.08852      | -0.3115       | -0.001484    | -0.3009      | -0.2115      | -0.04023      | -0.2274       | 0.3991        |
| 369 | 0.204       | -0.09        | 0.65          | 0.88         | 0.2706       | -0.44        | 0.6013        | 1.834         | 2.471         |
| 370 | -0.8041     |              | 0.2519        | 0.3019       |              | -0.3881      | 1.213         | 1.586         | 2.692         |
| 371 | 0.474       | -0.08        | 0.13          | 0            |              | 0.26         | 0.3112        | -0.04594      | 0.4906        |
| 372 | 0.99        | 0.5259       | 0.5359        | 0.6059       | 1.037        | 0.7059       | 0.5772        | 0.48          | 0.9366        |
| 373 | 1.194       | 1.23         | -0.13         | -0.49        | 0.1906       | 0.46         | 0.9413        | 0.5541        | 0.8406        |
| 374 | 0.2354      | 0.8314       | 0.9914        | 1.121        | 1.152        | 1.771        | 0.6327        | 0.2755        | -0.308        |
| 375 | 0.3362      | 0.8322       | 0.8122        | 0.7022       | 1.343        | 2.072        | 1.563         | 1.276         | 0.2428        |
| 376 | 0.8884      | 0.6744       | 0.5244        | 0.8144       | 1.545        | 0.4944       | 1.096         | 1.658         | -0.005        |
| 377 |             | 0.32         |               |              | 1.091        | -0.32        | 0.6513        | 0.03406       | 0.3206        |
| 378 | 1.294       | 0.45         | 1.04          | 0.99         | 1.201        | 0.4          | 1.161         | 1.344         | -0.6394       |
| 379 | -0.2988     | 0.3172       | 0.7972        | 0.8672       | 0.7078       | 0.7272       | 0.4784        | 0.2913        | -0.02219      |
| 380 | 0.69        | 0.2459       | 0.6159        | 0.6559       | 0.3166       | 0.08594      | 0.2572        | 0.25          | -0.1934       |
| 381 | -0.5135     | 1.392        | 0.5425        | 0.5225       | 0.9431       | 0.9125       | 1.124         | 0.4766        | 0.6531        |
| 382 | -0.6572     | -0.00125     | -0.2913       | -0.2312      | -0.000625    | 0.2687       | 0.82          | -0.1072       | -0.5306       |
| 383 |             | -0.2707      | 0.01926       | -0.1507      | 0.1899       | -0.03074     | 0.1105        |               | 0.009883      |
| 384 | 0.8897      | -0.3143      | 0.005703      | 0.1957       | 0.2263       | 0.4557       | -0.443        | -0.3302       | 0.6263        |
| 385 | 0.9765      | -0.0675      | 0.1825        | 0.2025       | -0.03687     | 0.5625       | -0.6062       | -0.1834       | 0.9131        |
| 386 | 0.894       | -0.17        | 1.67          | 1.58         | 0.3906       | 0.63         | 0.00125       | 0.2741        | 0.4206        |
| 387 | -0.007227   | 0.2087       | 0.2287        | 0.2688       | -0.03062     | 0.4188       | -0.57         | -0.1972       | -1.041        |
| 388 | 0.464       | 0.07         | 0.91          | 1.06         | 0.3106       | 0.76         | -0.03875      | -0.4359       | 0.08062       |
| 389 | -0.2898     |              | -0.2538       | -0.2738      | -0.1532      | -0.2538      | 0.2274        | -0.07977      | 0.7068        |
| 390 | 0.8397      | 0.1357       | 0.1257        | 0.0157       | 0.5363       | -0.4443      | -0.423        | -0.05023      | -0.4137       |
| 391 | -0.1029     | 0.5731       | 0.7231        | 0.7031       | 0.2138       | 0.8631       | 0.09438       | 0.6172        | 0.5237        |
| 392 | -0.1988     | 0.7972       | 1.047         | 1.407        | 0.4878       | 1.557        | 0.8884        | -0.1688       | -0.8422       |
| 393 | -0.5776     | 0.5384       | 1.188         | 1.108        | 1.039        | 0.8984       | 0.3096        | 0.2324        | -0.211        |
| 394 | -0.1988     | 0.1272       | 0.7372        | 0.6272       | 0.1978       | 0.4072       | 0.07844       | -0.3088       | 0.8678        |
| 395 | 0.5329      | 0.4489       | 0.6089        | 0.9289       | 0.1595       | 0.4989       | 0.2702        | 0.423         | 1.29          |
| 396 | -1.11       | 0.1964       |               |              | 0.607        | 0.8264       | -0.08234      | -0.7095       | -0.783        |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 397 | -0.1793     | -0.1133      | 0.4567        | 0.5867       | 0.6473       | -0.02328     | -0.03203      | 0.0007812     | -1.233        |
| 398 | -1.966      | 0            | -0.02         | -0.11        |              | 0.58         | -0.1287       | 0.3441        | -0.01937      |
| 399 | 0.09621     | -0.2478      | 1.352         | 1.042        | 1.233        | 0.1222       | -0.02656      | 0.3462        | -0.4472       |
| 400 | 1.294       | 0.15         | 0.09          | -0.22        | 0.6406       | 0.31         | 0.4013        | 0.9741        | -0.9794       |
| 401 | -2.396      | 0.01         | -0.2          | -0.42        | 0.6306       | -0.25        | 0.7613        | -0.4059       | -0.1094       |
| 402 |             | -0.7837      | -0.1537       | -0.6137      | 0.8369       | -0.3737      | 0.2175        | 0.6303        | -0.8231       |
| 403 | 0.684       | -0.7         | -0.32         | -0.27        | 0.03063      | -0.58        | 0.3113        | 0.2541        | 0.6106        |
| 404 | 0.9915      | -0.8525      | -0.7825       | -0.6825      | -0.6819      | -0.7625      | 0.4588        | 0.6116        | 1.418         |
| 405 | -0.4235     | 1.203        | 1.243         | 1.243        | 0.7231       | 1.283        | 0.9338        | 0.6466        | 0.6331        |
| 406 | 0.3521      | 0.368        | 0.228         | 0.258        | 0.5987       | -0.08197     |               | 0.4421        | 1.089         |
| 407 | 0.484       | 1.02         | 0.73          | 0.71         | 0.6706       |              | -0.2887       | 0.05406       | 1.171         |
| 408 | 2.87        | -0.003906    | -0.09391      | 0.05609      | 0.5467       | 0.3961       |               | 0.3702        | -0.4533       |
| 409 | 0.02402     | -0.02        | 0.03          | -0.05        | -0.01937     | 0.26         | -0.1487       | -0.2059       | -0.7494       |
| 410 | 1.045       | -0.1788      | -0.2388       | -0.2987      | 0.3419       | 0.1213       | 0.2925        | 0.2153        | -0.2081       |
| 411 | -0.236      | 0.18         | 0.85          | 0.8          | 0.9206       | 0.32         | 2.161         | 1.164         | 3.391         |
| 412 | 0.02684     | 0.4628       | 1.013         | 0.9428       | -0.02656     | 0.5128       | 0.5841        | 0.3269        | -0.9766       |
| 413 | 1.925       | 0.6013       | 1.311         | 1.001        | -0.2581      | 0.3113       | 0.1225        | -0.1746       |               |
| 414 | 0.8345      | -0.1395      | -0.07949      | -0.1695      | 0.01113      | -0.3695      | 0.2918        | 0.4346        | 0.09113       |
| 415 | 1.644       | 0.27         | 0.26          | 0.38         | 0.5006       | 1.23         | -0.2487       | -0.5059       | -0.4394       |
| 416 | 1.297       | 0.2234       | 0.6634        | 0.6634       | 0.894        | 0.4234       | 0.3446        | -0.01254      | -0.426        |
| 417 | 0.9302      | 0.1361       | 1.006         | 0.9761       | 0.5268       | 1.056        | 0.1274        | 0.1502        | 0.3468        |
| 418 | 0.874       | 0.04         | 1.27          | 1.72         | 0.5806       | 0.19         | 0.2513        | -0.04594      | 2.491         |
| 419 | -0.1297     | -0.5438      | 0.1362        | -0.01375     | 0.1469       | 0.2362       | -0.4225       | -0.1897       | 0.2169        |
| 420 | 0.994       | 0            | -0.35         | -0.45        | 0.5206       | 1.06         | 0.08125       | 0.2941        | 1.141         |
| 421 | 0.504       | -0.21        | -0.08         | -0.04        | 0.8806       | 0.02         | -0.00875      | -0.2559       | -0.2094       |
| 422 |             |              | 0.7687        | 0.5888       | 0.6694       | -0.8712      | -0.24         | -0.1572       | 0.3994        |
| 423 | 3.634       | 0.53         | 0.12          | 0.95         | 0.06063      | -6.93E-09    | 0.1113        | 1.104         | 2.201         |
| 424 | 2.034       | 0            | 0.8           | 0.58         | 1.031        | 0.1          | 0.7213        | 0.5541        | -0.04937      |
| 425 | 2.734       | -0.16        | 1             | 0.73         | 0.6106       | 0.35         | -0.2487       | 0.09406       | -0.2794       |
| 426 | 3.311       | 0.2273       | 1.237         | 2.027        | 1.678        | 0.1673       | -0.1815       | -1.459        | 0.03789       |
| 427 | 2.893       | 0.7387       | 1.309         | 1.339        | 1.039        | 1.359        | 0.12          | 1.023         | 1.149         |
| 428 | 3.443       | 0.6787       | 1.599         | 1.809        | 2.019        | 1.749        | 0             | 0.4728        | 2.129         |
| 429 | 3.139       | 0.165        | 1.235         | 1.435        | 1.946        | 1.285        | -0.2637       | 0.4091        | 1.796         |
| 430 | 2.907       | 0.5825       | 1.032         | 1.003        | 1.613        | 1.642        | 0.3638        | 0.4166        | 0.7131        |
| 431 | 2.305       | 0.3606       | 1.161         | 1.041        | 0.7613       | 1.201        |               | 0.5247        | 0.6512        |
| 432 | 2.699       |              | 0.915         | 0.915        | 1.286        | 1.235        |               | 0.7291        | 0.6656        |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
| 433 | 3.802       | 2.007        | 2.907         | 2.608        | 0.8681       | 2.637        | 1             | 1             | 1             |
| 434 | -0.3043     | -0.05836     | 0.8716        | 0.7316       | 1.172        | -0.02836     | 0.5029        | 0.5657        | -0.2719       |
| 435 | 1.55        | 0.2456       | -0.5444       | -0.5944      | 0.6663       | 0.4456       | 0.6369        | 0.5597        | 1.122         |
| 436 | 1.77        | 0.1459       | -0.3841       | -0.4341      | 0.4866       | 0.04594      | 0.2772        | 0.88          | 1.596         |
| 437 | 1.554       |              | -0.55         |              | 0.6706       | 0            | -0.05875      | 0.7241        | 2.127         |
| 438 | 3.052       | 0.3379       | 0.5579        | 0.6779       | 0.3385       | 1.108        | 0.2591        | -0.3181       | 2.161         |
| 439 | 2.846       | 0.6623       | 1.522         | 1.542        | 1.353        | 1.412        | 0.6435        | 0.8363        | -0.4515       |
| 440 | 0.314       | 0.51         | 0.4           | 0.26         | -0.1494      | 0.38         | 0.3013        | 0.2741        | -0.5471       |
| 441 | 0.02402     | 0.02         | 0.33          | -0.02        | 0.4406       | 0.06         | 0.2513        | -0.2459       | 0.3706        |
| 442 | 1.319       | -0.135       | 1.155         | 0.675        | 0.9956       | 0.825        | 0.5163        | 0.7091        | -0.1594       |
| 443 | 1.989       | -0.3155      | 0.5445        | 1.305        | 0.1052       | 0.4645       | 0.6558        | 1.619         | 0.2856        |
| 444 | -0.326      | -0.02        | 0.84          | 0.76         | 0.3206       | -0.07        | -0.4287       | -0.4359       | 1.385         |
| 445 | 0.649       | 0.375        | 0.015         | 0.315        | 0.04562      | 0.035        | 0.4962        | -0.03094      | -0.2594       |
| 446 | 2.689       | -1.285       | 0.8948        | 0.5648       | 0.7754       | -0.1852      | -2.034        | -0.9211       | 1.596         |
| 447 | 1.147       | 0.1325       | 0.4125        | 0.4725       | 0.5431       | 0.7725       | -0.1862       | 0.5466        | -1.025        |
| 448 | 1.392       | -0.1716      | 0.4284        | 0.3784       | 0.969        | -0.1716      | -0.4904       | 0.01242       | 0.4031        |
| 449 | 0.2933      | -0.3807      | -0.1107       | -0.0707      | 1.09         | -0.3407      | -0.5995       | -0.4066       | -0.351        |
| 450 | 0.7171      | 0.7031       | 2.923         | 3.073        | -1.936       | 1.833        | 1.604         | 2.507         | -0.8701       |
| 451 | -0.05848    | -0.1825      | 1.977         | 2.088        | 1.088        | -0.4725      | -0.9812       | -0.6184       | -0.2463       |
| 452 | 0.2497      |              | 2.386         | 2.476        | 1.446        | 0.0257       | -0.433        | -0.4402       | -0.7219       |
| 453 | 2.454       | -0.62        | 1.41          | 1.53         | 2.001        | -0.35        | 1.961         | 1.014         | -0.2137       |
| 454 | 1.599       | 0.8548       | 0.5548        | 0.6348       | -0.3346      | 0.9248       |               | 1.109         | 0.1506        |
| 455 | 0.2428      | -0.4813      | 0.01875       | -0.3212      | 0.6994       | -0.02125     | 0.16          | 0.6328        | -0.07457      |
| 456 | 2.062       | -0.09203     | -0.002031     | -0.312       | 0.3686       | 0.258        | -0.1908       | 0.982         | -0.6006       |
| 457 | -0.2629     |              | -0.3869       | -0.2369      | -0.1762      | -0.5269      | -0.3756       | -0.6528       | 1.139         |
| 458 | -0.341      | 0.145        | -0.175        | -0.705       | -0.2644      | 0.175        | 0.7963        | 0.7891        | -0.3463       |
| 459 | -0.07598    | -0.09        | -0.19         | -0.23        | 0.2006       | -0.01        | 0.2313        | -0.2659       | 0.6356        |
| 460 | -0.8424     | -0.6464      | -0.02641      | 0.1436       | -0.3658      | -0.5664      | -1.215        | -0.8323       | -0.9494       |
| 461 | 0.484       | 0.67         | 0.08          | 0.13         | 0.1106       | 0.43         | -0.6087       | -0.005938     | 1.244         |
| 462 | -0.541      | 0.015        | 0.465         | 0.415        | 0.3456       | -0.205       | -0.9137       | -0.5609       | 0.4306        |
| 463 | 0.8662      | -0.3478      | -0.3878       | -0.4578      |              | 0.4322       | 0.09344       | -0.4238       | 0.1756        |
| 464 | 0.784       | 0.29         | 0.09          | -0.23        | -0.1594      | 0.05         | 0.2113        | 0.1741        | -0.4972       |
| 465 | -0.1906     | 0.2054       | 0.08539       | 0.3654       | 0.446        | -0.1346      |               | -0.6205       | 0.04062       |
| 466 |             | 0.4539       | 1.024         | 0.5039       | 0.5345       | 0.8839       | 0.02516       |               | -0.494        |
| 467 | 0.724       | 0.14         | -0.26         | -0.65        | -0.3394      | -0.23        | 0.1613        | 0.2441        | -1.185        |
| 468 |             | -0.07148     | 0.6685        | -0.1115      |              | 0.03852      | 0.4498        | 0.4626        | 0.2006        |
|     |             |              |               |              |              |              |               |               | 1.509         |



Table 1

|     | STANFORD 37<br>ARRY9X | NORWAY 61-BE<br>ARRY10X | NORWAY 101-AF<br>ARRY12X | NORWAY 61-AF<br>ARRY11X | NORWAY 47-AF<br>ARRY13X | NORWAY 65-BE<br>ARRY14X | NORWAY 112-BE<br>ARRY16X | NORWAY 112-AF<br>ARRY15X | NORWAY 109-BE<br>ARRY1X |
|-----|-----------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-------------------------|
|     | 1                     | 1                       | 1                        | 1                       | 1                       | 1                       | 1                        | 1                        | 1                       |
| 469 |                       | 0.335                   | 0.435                    | -0.015                  | -0.08437                | -0.385                  |                          |                          | 1.166                   |
| 470 |                       | -0.4688                 | 0.4712                   | 0.2113                  | 0.6319                  | -0.3287                 | 0.5925                   | 0.6153                   | 1.102                   |
| 471 | -0.4998               | 0.5461                  | -0.06387                 | 0.1461                  | 0.5168                  | -0.3939                 |                          | 0.2902                   | 0.5468                  |
| 472 | 0.284                 | 0.18                    | 0.14                     | -0.07                   | 0.8406                  | 0                       | 0.3813                   | 0.02406                  | 1.461                   |
| 473 | 2.094                 | 0.18                    | 0.35                     | 0.75                    | 0.2506                  | 0.71                    | 0.2113                   | 0.4041                   | 1.411                   |
| 474 | -0.1504               | 0.2655                  | -0.1645                  | 0.1755                  | 0.6862                  | -0.5545                 |                          | -0.4204                  | 1.056                   |
| 475 | 1.004                 | 0.3702                  | -0.3198                  | -0.1298                 | -0.7191                 | 0.8402                  | -0.08852                 | -0.2657                  | -0.5091                 |
| 476 | 2.775                 | -0.01875                | -0.8288                  | -0.8087                 | 0.1219                  | -0.9287                 | -1.307                   | -1.445                   | -0.5481                 |
| 477 | -0.8212               | 0.5248                  | 0.9448                   | 0.9348                  | 0.7354                  | 0.5748                  | 1.136                    | 1.379                    | 0.1754                  |
| 478 | -0.5208               | 0.1752                  | 0.2852                   | 0.2652                  | 0.07578                 | -0.06484                | 0.07641                  | 0.4792                   | -0.7242                 |
| 479 | 0.2018                | 0.2078                  | 0.1878                   | 0.2178                  | -0.001562               | 0.6278                  | 1.339                    | 0.6819                   | -0.3916                 |
| 480 | 0.007617              | -0.01641                | -0.2064                  | -0.006406               | -0.4458                 | -0.4464                 | 0.2648                   | -0.6723                  | 0.4542                  |
| 481 | 0.2133                | -0.4007                 | -0.3307                  | -0.3707                 | -0.4101                 | 0.009297                | -0.3995                  | -0.7066                  | -0.2601                 |
| 482 | -0.576                | 3.43E-09                | 0.38                     | 0.21                    | 0.3206                  | 0.21                    | -0.07875                 | -0.2759                  | -1.089                  |
| 483 | -0.07191              | 0.06406                 | 0.8641                   | 0.9241                  | -0.1253                 | 0.4541                  | -0.08469                 | -0.3219                  | -0.4553                 |
| 484 | -1.156                | -0.59                   | 0.11                     | 0                       | 0.1106                  | 0.25                    | -0.3888                  | -0.4259                  | -0.8094                 |
| 485 | -0.716                | 0.2                     | 0.01                     | 0.16                    | -0.1694                 | 0.04                    | -0.2987                  | 0.4441                   | -0.9294                 |
| 486 | -0.918                | 0.228                   | 0.398                    | 0.348                   | 0.9986                  | 0.348                   | 0.3492                   | 0.002031                 | -0.3414                 |
| 487 | 0.05988               | 0.4259                  | 0.1759                   | 0.09586                 | -0.1335                 | 0.5259                  | -0.7129                  | -0.7901                  | -0.3635                 |
| 488 | -1.107                | -1.061                  | -0.3813                  | -0.3612                 | -0.8106                 | -0.7212                 | 0.2                      | -0.7772                  | 0.7394                  |
| 489 | -1.08                 | -0.9542                 | -0.3542                  | -0.1642                 | -0.5836                 | -0.6142                 | -0.143                   | -0.4802                  | 0.8564                  |
| 490 | 0.394                 | -0.19                   | -0.42                    | -0.18                   | -0.6094                 | -0.46                   | -0.4087                  | -0.4459                  | 0.9406                  |
| 491 | -0.6121               | -0.2561                 | -0.3461                  | -0.4461                 | -0.9955                 | -0.6261                 | 0.6052                   | 0.668                    | 0.3645                  |
| 492 | -0.03535              | -0.08938                | -0.1694                  | -0.2294                 | -1.359                  | -0.3894                 | -0.02812                 | -0.5853                  | 0.2812                  |
| 493 | 0.163                 | -0.1211                 | 0.6489                   | 0.6689                  | -0.1504                 | 0.1689                  | 0.1902                   | -0.237                   | -0.7104                 |
| 494 | 0.6112                | 0.01719                 | -0.2728                  | -0.2128                 | -0.1122                 | 0.1572                  | -0.4516                  | -0.03875                 | 0.7778                  |
| 495 | -1.071                | 0.1251                  | 0.9851                   | 0.7751                  | 0.2657                  | 0.1851                  | 0.01637                  | 0.2492                   | 0.3357                  |
| 496 | -1.038                | -0.3022                 | 0.08781                  | -0.4822                 | 0.3284                  | -0.4722                 | 0.1691                   | -0.05813                 | 0.03844                 |
| 497 | -0.856                | 0.11                    | 0.41                     | 0.49                    | 0.05063                 | -0.13                   | 0.2413                   | 0.2141                   | 0.03062                 |
| 498 | -1.007                | -0.6614                 | 0.1086                   | 0.2086                  | -0.5808                 | -0.001406               | 0.2898                   | 0.02266                  | -0.3608                 |
| 499 | 0.424                 | -0.34                   | 0.02                     | 0.1                     | 0.3806                  | -0.06                   | -0.06875                 | -0.1259                  | -1.069                  |
| 500 | 1.22                  | 0.1563                  | 2.166                    | 2.036                   | 0.8969                  | -0.1937                 | 0.1775                   | -0.3497                  | -0.5531                 |
| 501 | 1.077                 | -0.1569                 | -0.1269                  | 0.2131                  | 0.1238                  | 0.2631                  | -0.4856                  | -0.9628                  | -0.6963                 |
| 502 | 0.904                 | 0.59                    | 0.58                     | 0.75                    | 0.5606                  | 1.11                    | 0.6913                   | 1.194                    | 1.011                   |
| 503 | 0.939                 |                         | 0.685                    | 0.805                   | 0.8456                  | 0.975                   | 0.4063                   | 0.6791                   | 2.806                   |
| 504 | 0.9188                | 0.4248                  | 0.0648                   | -0.005195               | -0.1146                 | 0.4848                  | 0.4261                   | -0.2211                  | -0.7346                 |

Table 1

|     | STANFORD 37 | NORWAY 61-BE | NORWAY 101-AF | NORWAY 61-AF | NORWAY 47-AF | NORWAY 65-BE | NORWAY 112-BE | NORWAY 112-AF | NORWAY 109-BE |
|-----|-------------|--------------|---------------|--------------|--------------|--------------|---------------|---------------|---------------|
|     | ARRY9X      | ARRY10X      | ARRY12X       | ARRY11X      | ARRY13X      | ARRY14X      | ARRY16X       | ARRY15X       | ARRY1X        |
|     | 1           | 1            | 1             | 1            | 1            | 1            | 1             | 1             | 1             |
| 505 | 0.464       | -0.33        | -0.23         | -0.07        | -0.1494      | 0.24         | -0.3587       | -0.2559       | 0.9306        |
| 506 | 1.689       |              | 1.105         | 1.225        | 0.5356       | 0.295        | 0.8262        | 0.4391        | 0.1756        |
| 507 | 0.3651      | -0.2089      | -0.1689       | -0.3089      | 0.01172      | -0.4789      | 0.4823        | 0.3652        | 2.592         |
| 508 | -0.356      | 0.77         | 0.36          | 0            | 0.2206       | -0.33        | 0.00125       | 0.2041        | 2.251         |
| 509 | 0.994       | -0.56        | -0.54         | -0.28        | -0.8094      | -0.45        | 0.00125       | -0.01594      | 1.041         |
| 510 |             | -0.13        | 0.64          | 0.37         | 0.1406       | 0.16         | 1.311         | 0.6141        | 1.341         |
| 511 | 0.764       | -0.35        | 0.02          | 0.28         | -0.4594      | 0.09         | 0.6613        | 0.5941        | 2.141         |
| 512 | 0.829       | 0.845        | 0.725         | 0.925        | -0.04437     | 0.735        | 0.6163        | 0.6091        | -0.06437      |
| 513 | 0.7723      | 0.5383       | 0.8083        | 0.8783       |              | 1.078        | 0.8095        | 0.7023        | 0.09891       |
| 514 | 0.699       | 1.585        | 0.185         | 0.345        | 0.5156       | -0.515       |               | -0.7309       | 0.8256        |
| 515 | -0.7104     | 0.03562      | 1.566         | 1.366        | 0.5763       | -0.1544      | 0.5169        | -0.0003125    | 0.3462        |
| 516 | 1.442       | 0.09781      | -0.4622       | -0.5122      | 0.7384       | 0.04781      | 0.3391        | -0.1681       | 0.6284        |
| 517 | 1.131       | -0.9827      | 0.9373        | 0.7973       | 0.358        | 0.06734      | -0.001406     | -0.03859      | 0.508         |
| 518 | -0.4004     | -0.004375    | 0.1956        | 0.2456       | -0.2837      | 0.2056       | 0.7069        | -0.1303       | 2.116         |
| 519 | -0.9388     | -0.3328      | 0.3772        | 0.3272       | 0.03781      | -0.6628      | 0.6984        | -0.01875      | 1.548         |
| 520 | -0.386      | -0.81        | -0.19         | 0.2          | -0.01937     | -0.31        | 0.08125       | 0.7241        | 1.621         |
| 521 | -0.4014     | 0.3745       | -0.02547      | -0.07547     | 0.4252       | -0.3055      | 0.5758        | 0.2086        | 1.725         |
| 522 | 0.657       | -0.137       | 0.633         | 0.543        | 0.8336       | 0.743        | 0.2042        | -0.493        | 1.714         |
| 523 | 0.3352      | -0.6089      | 0.6811        | 0.7211       | -0.2882      | -0.02887     | -0.1176       | -0.6748       | 1.112         |
| 524 | 0.269       |              | -0.265        | -0.465       | 0.03563      | 0.405        |               | 0.3891        | -0.6544       |
| 525 | 0.164       | -0.69        | -0.34         | -0.01        | -0.3194      | 0.25         | 0.3113        | 0.3841        | -0.2194       |
| 526 | -0.3504     | -0.09438     | 0.8856        | 0.8656       | -0.01375     | 0.5956       | 0.2069        | 0.2097        | -0.2638       |
| 527 | -0.8396     | 0.1364       | 1.446         | 1.676        | -0.01297     | 1.136        | -0.1323       | 0.01047       | -0.563        |
| 528 | -0.02973    | 0.6762       | 0.01625       | 0.1163       | 1.767        | 0.3963       | -0.2225       | 0.2003        | -0.1431       |
| 529 | 1.404       | -0.33        | 0.11          | -0.1         | 0.6406       | 0.84         | 0.9013        | 0.7441        | -0.2494       |
| 530 | -0.8094     | -0.1734      | -0.03344      |              | 0.1872       | -0.09344     | -0.002187     | 0.03062       | -0.2228       |
| 531 | 1.072       | -0.6622      | -0.01219      | -0.2122      | 0.4584       | -0.8322      | -0.6409       | 0.3119        | -1.032        |
| 532 | 0.08402     | -0.33        | 0.26          | 0.22         | 0.1606       | 0            | -0.1087       | -0.1659       | -0.2894       |
| 533 | 1.46        | 1.296        | 0.7259        | 0.9359       | -0.9035      | 0.6459       | -0.1729       | -0.5901       | 2.746         |
| 534 | -0.1049     |              | 0.1811        | -0.1689      | -1.778       | -0.4389      |               |               | 1.142         |
| 535 | -1.072      | 0.1241       | 0.03406       | -0.01594     |              | -1.266       | -0.5247       | 1.118         | 0.01469       |
| 536 | -1.774      | 1.842        | 0.0824        | 0.4324       | 0.503        | -1.938       |               | 1.916         | -2.417        |
| 537 | -0.8429     | 0.9731       | -0.04688      | 0.2931       | 0.1938       | -1.877       | -1.036        | 1.157         | -0.7063       |
| 538 | -2.505      | 1.571        | 0.6413        | 0.8113       | 0.01195      | -1.459       | -0.1374       | 0.2054        | -0.688        |
| 539 |             | 0.4541       | -0.09586      | 0.3041       | 0.7948       | -0.6359      | 0.05539       | 0.4582        | 0.7348        |
| 540 | 0.4223      | 0.4383       | 0.3483        | 0.3483       | -0.03109     | 0.5483       | 0.7895        | 1.222         | -0.06109      |